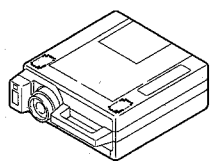
VPL-S500U/S500E/S500M

PK-PJ500/PSS-500/RM-PJ21/RM-PJM500

SERVICE MANUAL

VPL-S500U
US Model
Canadian Model

VPL-S500E/S500M
AEP Model



P D CHASSIS

SPECFICATIONS

VPL-S500U/S500E/S500M

Optical characteristics

Projection system	3 LCD panels, 1 lens, projection system
LCD panel	1.3-inch TFT LCD panel, 1, 557, 504 pixels (519, 168 pixels × 3)
Lens	1.5 times zoom lens f 50 to 75 mm/F 2.5 to 3.1
Lamp	250 W Metal halide lamp
Projection picture size	Range: 40 to 300 inches (diagonal measure)
Light output	ANSI lumen[1] 450 lm

Throwing distance 40-inch: 1470 to 2190 mm (57 7/8 to 86 1/4 inches)
80-inch: 3040 to 4450 mm (119 3/4 to 175 3/4 inches)
100-inch: 3820 to 5580 mm (150 1/2 to 219 3/4 inches)
120-inch: 4600 to 6720 mm (181 1/8 to 264 5/8 inches)
200-inch: 7730 to 11250 mm (304 3/8 to 443 inches)
300-inch: 11640 to 16910 mm (458 3/8 to 665 3/4 inches)
For (832 × 624)-dot display

1) ANSI lumen is a measuring method of American National Standard IT 7.228.

-Continued on next page-

LCD DATA PROJECTOR

SONY.

Electrical characteristics

Color system: NTSC3.58/PAL/SECAM/NTSC4.43/PAL-M system, switched automatically/manually

Resolution: 600 horizontal TV lines (Video input)
832 × 624 pixels (RGB input)

Acceptable computer signals
15k RGB/component (NTSC)
fH:15.734 kHz, fV:59.94 Hz
15k RGB/component (PAL/SECAM)
fH:15.625 kHz, fV: 50.0 Hz
VGA mode1 (640 × 350 dots)
fH:31.468 kHz, fV:70.086 Hz
VGA mode2
(Text 640 × 400 dots)
fH:31.468 kHz, fV:70.086 Hz
VGA mode3
(Graphics 640 × 480 dots)
fH:31.468 kHz, fV:59.94 Hz
VGA VESA 72 Hz
(640 × 480 dots)
fH:37.86 kHz, fV:72.809 Hz
VGA VESA 75 Hz
(640 × 480 dots)
fH:37.5 kHz, fV:75 Hz
Macintosh 13-inch mode
(640 × 480 dots)
fH:35.0 kHz, fV:66.66 Hz
Macintosh 16-inch mode
(832 × 624 dots)
fH:49.724 kHz, fV:74.55 Hz
S VGA VESA 56 Hz
(800 × 600 dots)
fH:35.156 kHz, fV:56.25 Hz
S VGA VESA 60 Hz
(800 × 600 dots)
fH:37.879 kHz, fV:60.32 Hz
S VGA VESA 72 Hz
(800 × 600 dots)
fH:48.077 kHz, fV:72.188 Hz
S VGA VESA 75 Hz
(800 × 600 dots)
fH:46.875 kHz, fV:75.0 Hz
S VGA VESA 85 Hz
(800 × 600 dots)
fH:53.674 kHz, fV:85.061 Hz
XGA VESA 60 Hz
(1024 × 768 dots)
fH:48.363 kHz, fV:60 Hz[2)]
XGA VESA 70 Hz
(1024 × 768 dots)
fH:56.476 kHz, fV:70.069 Hz[2)]

Horizontal frequency range
RGB:15 kHz (SonG/Composite sync), 24 to 57 kHz

Vertical frequency range
50 to 85 Hz

Speaker: Max. 2 W + 2 W, 7 × 4 cm ($^3/_{32}$ × $^3/_{16}$ inches) stereo

Input/Output

VIDEO IN
VIDEO: BNC-type
Composite video: 1 Vp-p ±2 dB sync negative (75 ohms terminated)
S VIDEO: Y/C mini DIN 4-pin type (male)
Y (luminance): 1 Vp-p ±2 dB sync negative (75 ohms terminated)
C (chrominance):burst 0.286 Vp-p ±2 dB (NTSC) (75 ohms terminated), burst 0.3 Vp-p ±2 dB (PAL) (75 ohms terminated)

AUDIO IN: Phono type:
500 mVrms, stereo, impedance more than 47 kilohms

INPUT A: Analog RGB/component:HD D-sub15-pin (female)
(For details, see "Pin assignment" on page 38 (EN).)
R/R-Y: 0.7 Vp-p ±2 dB positive (75 ohms terminated)
G: 0.7 Vp-p ±2 dB positive (75 ohms terminated)
G with sync/Y: 1 Vp-p ±2 dB sync negative (75 ohms terminated)
B/B-Y: 0.7 Vp-p ±2 dB positive (75 ohms terminated)
SYNC/HD:
Composite sync input: 0.6-8 Vp-p high impedance, positive/negative
Horizontal sync input: 0.6-8 Vp-p high impedance, positive/negative
VD:
Vertical sync input: 0.6-8 Vp-p high impedance, positive/negative
AUDIO IN: Stereo minijack
500 mVrms, impedance more than 47 kilohms

AUDIO OUT (variable out): Phono type
Max. 1 Vrms, when an input signal is 500 mVrms, impedance less than 5 kilohms

CONTROL S IN/PLUG IN POWER: Stereo minijack
5 Vp-p
Plug in power, DC 5 V maximum output 60 mA

2) Compressed XGA signal is reproduced.

Safety regulations	VPL-S500U: UL1950, CSA950, FCC Class B, IC Class B VPL-S500E/S500M: EN60 950 (TÜV), CE, C-Tick

General

Dimensions	368 × 176 × 444 mm (14 1/2 × 7 × 17 15/32 inches) (w/h/d)
Mass	Approx. 10 kg (22 lb 1 oz)
Power requirements	
	VPL-S500U: AC 100 to 120 V/ 220 to 240 V, 50/60 Hz[1]
	VPL-S500E/S500M: AC 220 to 240 V, 50/60 Hz
Power consumption	
	Max. 350 W (Standby mode: 10 W)
Heat dissipation	1194.4 BTU
Operating temperature	
	0°C to 40°C (32°F to 104°F)
Operating humidity	
	35% to 85% (no condensation)
Storage temperature	
	–20°C to 60°C (–4°F to 140°F)
Storage humidity	10% to 90%
Supplied Accessories	
	Remote Commander RM-PJM500 (1) Mouse Receiver RM-PJ21 (Receiver × 1, conversion cable × 2, Operating Instructions × 1) (1) Size AA (R6) batteries (2) HD D-sub 15-pin (male) ⟷ HD D-sub 15-pin (male) cable (1) Signal Adapter (for Macintosh) (1) AC Power cord (1) Lens cap (1) Ventilation cover (1) Operating Instructions (1)

Design and specifications are subject to change without notice.

Optional accessories

Projector Lamp PK-PJ500[2] (for replacement)
Projector Suspension Support PSS-500
Signal Adapter ADP-10 (HD D-sub 15-pin ⟷ D-sub 9-pin (for SIC cable))
Monitor cable
SMF-400 (HD D-sub 15-pin (male) ⟷ 5BNC (male))
SMF-401 (HD D-sub 15-pin (male) ⟷ HD D-sub 15-pin (male))
SIC cable
SIC-20A/20B/21/22
Projection Lens
VPLL-FM30
VPLL-ZM100
Carrying Case VLC-500
Screens
VPS-100FH (100-inch, flat)
VPS-120FH (120-inch, flat)

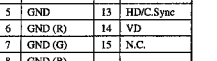
Some of the items may not be available in some areas. For details, please consult your nearest Sony office.

Pin assignment

RGB input connector (HD D-sub 15-pin, female)

1	R/R-Y	9	N.C.
2	G/G-Y	10	GND
3	B/B-Y	11	GND
4	N.C.	12	N.C.
5	GND	13	HD/C.Sync
6	GND (R)	14	VD
7	GND (G)	15	N.C.
8	GND (B)		

S VIDEO connector (4 pin, mini-DIN)



Switch position for adapter

Mode	fH	DIP switch 12345678
VGA/S VGA	31.5 kHz/37.8 kHz	00111001
Macintosh 13"	35.0 kHz	11001001
Macintosh 16"	49.7 kHz	01011001

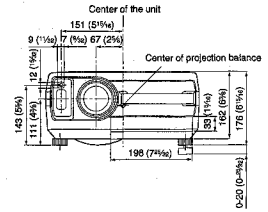
This unit does not correspond to the Macintosh 19" mode.

1) UL approved for 120V operation.

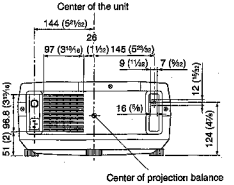
2) PK-PJ500 may not be available in some areas. For details, please consult your nearest Sony office.

Dimensions

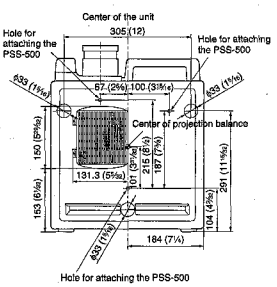
Front



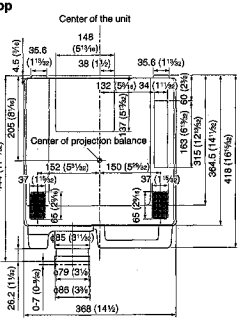
Rear



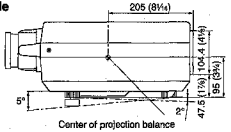
Bottom



Top



Side

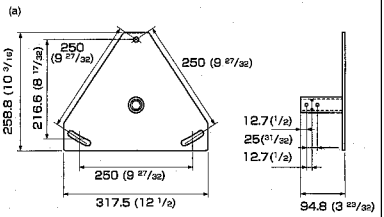


Unit: mm (inches)

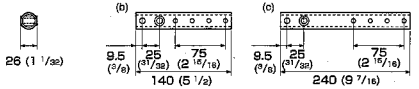
PSS-500

Dimensions

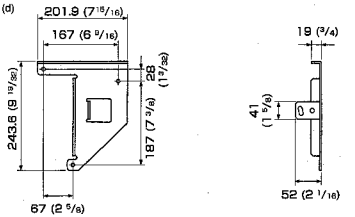
Upper ceiling mount bracket



Adjustment pipes

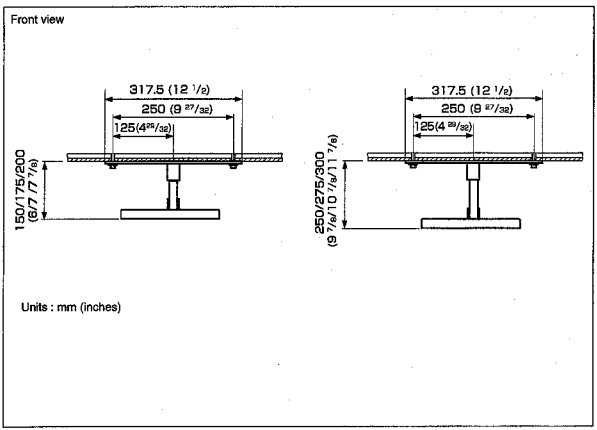


Projector mount bracket



Units : mm (inches)

Dimensions of the assembled bracket



Mass Approx. 3 kg (6 lb 10 oz)

Loading Maximum loading :15 kg (33 lb 1 oz)

Design and specifications are subject to change without notice.

PK-PJ500

Lamp	250 W metal halide DC lamp
Dimensions	Approx. 104 x 115 x 122 mm(w/d/h) (4 1/8 x 4 5/8 x 4 7/8 inches)
Mass	Approx. 390 g (14 oz)

Specifications are subject to change without notice.

RM-PJ21

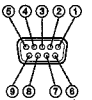
Dimensions 75 × 41.8 × 79.5 mm (3 × 1 11/16 × 3 1/4 inches) (w × h × l)
Mass 190 g (7 oz)
Supplied accessories
Cable for IBM PC/AT compatible computers (250 mm, 9 7/8 inches) (1)
Cable for Macintosh computers (250 mm, 9 7/8 inches) (1)
Operating instructions (1)

Pin assignment C

Design and specifications are subject to change without notice.

C

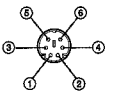
D-sub (9 pin) (Main unit)



1	N.C.	6	N.C.
2	RD	7	RTS
3	TD	8	CTS
4	DTR	9	N.C.
5	GND		

Cable for IBM PC

Mini-DIN 6 pin



1	Data
2	
3	GND
4	+5V
5	Clock
6	

Cable for Macintosh computers

Mini-DIN 4 pin

1	ADB	3	+5V
2	N.C.	4	GND

SAFETY CHECK-OUT
(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the B+ and HV to see if they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

8. Check the metal trim, metallized knobs, screws, and all other exposed metal parts for AC leakage.
   Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufactures' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

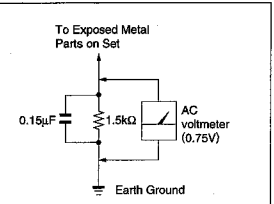


Fig. A. Using an AC voltmeter to check AC leakage.

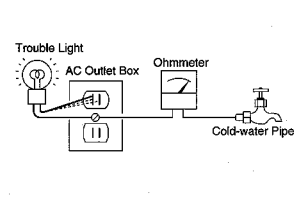


Fig. B. Checking for earth ground.

TABLE OF CONTENTS

Section	Title	Page
1. GENERAL		
1-1.	VPL-S500U/S500E/S500M	
	• Features	10
	• Location and Function of Controls	10
	• Installing the Projector	13
	• Connecting with a Computer or a VCR	14
	• Operating a Computer from the Remote Commander	14
	• Projecting	15
	• Using the MENU	16
	• The INPUT SELECT Menu	17
	• The PICTURE CTRL Menu	17
	• The INPUT SETTING Menu	18
	• The SET SETTING Menu	20
	• The INPUT INFO Menu	21
	• Installation Examples	22
	• Connection Example	23
	• Maintenance	23
	• Troubleshooting	24
1-2.	PSS-500	25
1-3.	PK-PJ500	32
1-4.	RM-PJ21	33
2. DISASSEMBLY		
2-1.	Hood Assy and H Board Removal	34
2-2.	FA Board Removal	34
2-3.	C Board Removal	34
2-4.	B and Q Boards Removal	34
2-5.	Extension Cable	35
2-6.	GA Board Removal	35
2-7.	GB and FB Boards Removal	35
2-8.	NF Board Removal	36
2-9.	Optical Unit Removal	36
2-10.	How to Exchange Projection Lens	36
2-11.	How to Exchange 4P-Prism	37

Section	Title	Page
3. SET-UP ADJUSTMENTS		
3-1.	Service Mode	38
3-2.	Factory Mode	39
3-3.	Polarizer Plate Adjustment	40
3-4.	SID Level Adjustment	40
3-5.	Adjustment	40
	1. V-COM Adjustment	40
	2. Signal Level Adjustment	40
	3. Y, W/B (White Balance) Adjustment	41
3-6.	Service Know-How	42
	1. When the Prism Block is replaced.	42
	2. When the Q Board is replaced.	42
	3. When the B Board is replaced.	42
	4. When the C Board is replaced.	42
4. DIAGRAMS		
4-1.	Block Diagrams	45
4-2.	Frame Schematic Diagram	63
4-3.	Circuit Boards Location	66
4-4.	Schematic Diagrams and Printed Wiring Boards	66
	• Q Board	67
	• B Board	76
	• H, NF, NR, U, V Boards	85
	• C Board	89
	• GA, GAA, GAB, GAC Boards	111
	• GB Board	117
	• GBA, FA, FB Boards	120
4-5.	Semiconductors	123
5. EXPLODED VIEWS		
5-1.	Chassis 1	125
5-2.	Chassis 2	126
5-3.	Optical Unit	127
6. ELECTRICAL PARTS LIST		128

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

HIGH TEMPERATURE OF THE LAMP

The temperature around the lamp became awfully high while the power on or immediately after power off.
Handle with care to not scaled.

ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1
GENERAL

The operating instructions mentioned here are partical abstracts from the Operating Instruction Manual and Installation Manual. The page numbers of the Operating Instruction Manual and Installation Manual remain as in the manual.

1-1. VPL-S500U/S500E/S500M

Features

High brightness, high picture quality

- **High brightness**
  Adopting the long service life, the 250 W, metal halide lamp and new developed optical system allow high brightness (light output 450 ANSI lumen) and excellent uniformity on the picture.

- **High resolution**
  By adopting three 1.3-inch, about 520,000-pixel S VGA[1] panels, this projector offers resolution of 832 × 624 pixels for RGB input and 600 horizontal TV lines for composite video input.

- **Superior color reproduction**
  The superior characteristics of the metal halide lamp and the optical design of the projector allow superior color reproduction.

Easy presentation

- **Remote Commander with mouse control function**
  The Remote Commander can control a mouse for a computer connected to the mouse receiver.

- **High portability**
  This projector comes with convenient features for transportation such as a carrying handle and a Remote Commander pocket on the cabinet to keep the Remote Commander.

Easy setup

- **Easy setup with external equipment**
  This projector has 19 kinds of preset data for input signals. You can get an optimum picture by simply connecting an equipment with supplied cable.

- **Flexible setup**
  This projector is designed to be installed on the table or the ceiling. A 1.5x zoom lens is provided as standard equipment.

Accepts various input signals

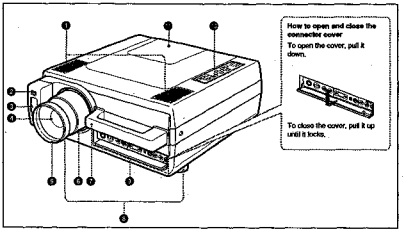
This projector accepts horizontal frequencies of 15, 24 to 57 kHz and vertical frequencies of 50 to 85 Hz. You can project pictures from VGA or XGA computers, VCRs, and video cameras.

- **Compatible with five color systems**
  NTSC, PAL, SECAM, NTSC 4.43[2], or PAL-M color system can be selected automatically or manually.

1) S VGA is a registered trademark of the International Business Machines Corporation, U.S.A.
2) NTSC4.43 is the color system used when playing back a video recorded on NTSC on a NTSC4.43 system VCR.

Location and Function of Controls

Front



❶ **Speakers**

❷ **Front remote control detector**

❸ **Remote Commander pocket**
Houses the supplied Remote Commander. When inserting the Remote Commander, make sure the infrared transmitter is facing forwards and push it until it clicks.
To take out the Remote Commander from the pocket, push it once and pull it out.

❹ **Lens**
Remove the lens cap before projection.

❺ **Focus ring**
Adjusts the picture focus.

❻ **Zoom ring**
Adjusts the size of the picture.

❼ **Carrying handle**
Use the handle for carrying the projector.

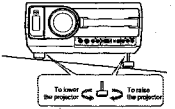
❽ **Adjusters**
Use the adjusters to keep the projector level if it is installed on an uneven surface.

❾ **Connector panel**
For details, see page 9 (EN).

❿ **Control panel**
For details, see page 8 (EN).

⓫ **Lamp cover**

How to use the adjusters

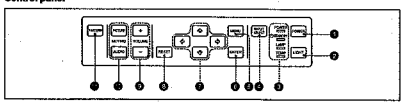


While lifting the projector, turn the adjusters and adjust the height so that the projector becomes level. There are two adjusters at the front and one at the rear of the projector.

Note
Be careful not to let the projector down on your fingers.

Location and Function of Controls

Control panel



❶ POWER key
Press to turn the projector on and off once the projector is in the standby mode. The POWER indicator lights in green when the power is turned on.
When turning off the power, press the POWER key twice following the message on the screen, or press and hold the key for about one second.
For details on steps for turning off the power, see "To turn off the power" on page 17 (EN).

❷ LIGHT key
Lights the back lighting (orange) for the control panel when the power is turned on. Press again to turn off the back lighting.

❸ Indicators
POWER: Lights in green when the power is turned on.
Flashes in green while the cooling fan runs after turning off the power with the POWER key. The fan runs for about 90 seconds after turning off the power.
The POWER indicator flashes quickly for the first minute. During this time, you will not be able to turn the power back on with the POWER key.

STANDBY: Lights in red when the MAIN POWER switch at the rear of the projector is turned on. Once in the standby mode, you can turn the projector on with the POWER key on the control panel or the Remote Commander.

Note
When the MAIN POWER switch is turned off, there will be a slight delay before the indicator goes off.

LAMP: Lights up or flashes under the following conditions:
- Lights up when a trouble has prevented the lamp from lighting.
- Flashes when the lamp cover or air filter cover is not secured firmly.

Note
When the LAMP indicator lights up, never open the lamp cover if the projector is installed on the ceiling.

TEMP (Temperature): Lights up or flashes under the following conditions:
- Lights up when temperature inside the projector becomes unusually high.
- Flashes when the fan inside the projector stops.

For details on the LAMP and the TEMP indicators, see page 55 (EN).

❹ INPUT SELECT key
Selects the input signal. Each time the key is pressed, the video signal is switched between the VIDEO IN and INPUT A connectors and the audio signal is switched between the AUDIO IN L/R jacks and INPUT A connectors.

❺ MENU key
Press to display the on-screen menu. Press again to clear the menu.

❻ ENTER key
Press to enter the settings of items in the menu system.

❼ Arrow keys (↑/↓/←/→)
Used to move the on-screen cursor or to make various adjustments.

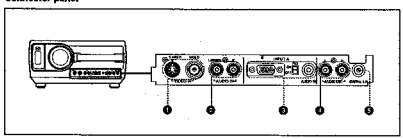
❽ RESET key
Press to restore the value of an item back to its factory preset value. This key functions when the menu or a setting item is displayed on the screen.

❾ VOLUME +/– keys
Adjust the volume of the built-in speakers and output level of the AUDIO OUT jacks.
+ : Increases the volume.
– : Decreases the volume.

❿ MUTING keys
Cuts off the picture and sound.
PICTURE: Press to cut off the picture. Press again to restore the picture.
AUDIO: Press to cut off the sound. Press again or press the VOLUME + key to restore the sound.

⓫ PATTERN key
Displays a pattern on the screen for focus adjustment. Press again to clear the pattern.

Connector panel



❶ VIDEO IN connectors
S VIDEO (mini DIN 4-pin): Connects to the S video output (Y/C video output) of a video equipment.
VIDEO (BNC-type): Connects to the composite video output of video equipment.

Note
If you have video equipments connected to both the S VIDEO and VIDEO connectors, the signal from the S VIDEO is selected. When showing video connected to the VIDEO connector, be sure not to connect a cable to the S VIDEO connector.

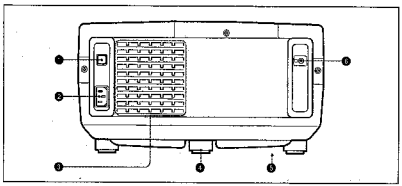
❷ AUDIO IN L (MONO)/R jacks (phone type)
Connect to the audio output jacks of an equipment. For stereo equipment, use both the L and R jacks; for monaural equipment, use the L (MONO) jack only.

❸ INPUT A connectors
RGB input connector (HD D-sub 15-pin, female): Connect to the monitor output connector on a computer using the supplied cable. Use the optional cable to input a component signal.
75-ohm termination switch (ON/OFF): Normally set to ON. Set it to OFF when the projector is connected to a computer and a monitor.
AUDIO IN jacks (stereo mini jack): Connects to the audio output jack on a computer.

❹ AUDIO OUT L/R jacks (phono type)
Connects to external active speakers.
The volume of the speakers can be controlled by the VOLUME keys on the projector or the Remote Commander.

❺ CONTROL S IN/PLUG IN POWER (DC 5V) jack (stereo mini jack)
Connects to the CONTROL S OUT jack of the supplied Remote Commander when using as a wired Remote Commander.

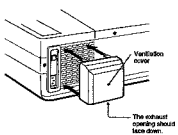
Rear



❶ MAIN POWER switch (⏻ON/■OFF)
Turns the main power on and off.

❷ AC IN socket
Connect the supplied AC Power cord.

❸ Ventilation holes (exhaust)
If you need to reduce the fan noise, install the supplied ventilation cover over the holes.



Note
If the supplied AC power cord plug does not match the wall socket in your country, consult qualified Sony personnel.

❹ Adjuster
Use the adjuster to keep the projector level if it is installed on an uneven surface.
For details on using the adjuster, see "How to use the adjuster" on page 7 (EN).

❺ Ventilation holes (intake)

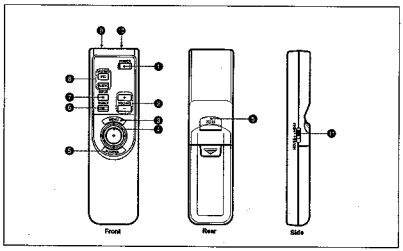
Notes
- Do not place anything near the ventilation holes as it may cause internal heat build-up.
- Do not place your hand or objects near the ventilation holes – the air coming out is hot.

❻ Rear remote control detector

Remote Commander

The Remote Commander may be used as a wireless or wired Remote Commander.
For details on operation of the keys not mentioned here, see the description in the control panel section.

If you connect the mouse receiver to a computer, you can use the Remote Commander as a mouse for a connected computer.
For details, see "Operating a Computer from the Remote Commander" on page 15 (EN).



❶ POWER key

❷ VOLUME +/– keys

❸ MENU key

❹ Joy stick
Used to move the on-screen cursor or to make various adjustments.

❺ ENTER keys

❻ RESET key

❼ INPUT key

❽ MUTING PIC/AUDIO keys
The MUTING PIC key has the same function as the MUTING PICTURE key on the control panel.

❾ CONTROL S OUT jack (stereo minijack)
Connect to the CONTROL S IN jack on the projector when using the Remote Commander as a wired Remote Commander. When using the Remote Commander as a wired Remote Commander by connecting a stereo remote commander cable, you do not need to install the batteries since the power is supplied from the CONTROL S IN jack on the projector.

❿ Infrared transmitter

⓫ MOUSE/MENU switch
Normally, set to MENU.
Set to MOUSE when you operate the mouse on a computer connected to the mouse receiver from the Remote Commander.
For details, see "Operating a Computer from the Remote Commander" on page 15 (EN).

Battery Installation

1 Push and slide to open the lid.

2 Install the two size AA (R6) batteries (supplied) with the correct polarity.

3 Replace the lid.

Notes on batteries

- Be careful that the battery orientation is correct when inserting batteries.
- Do not mix old battery with new one, or different types of batteries.
- If you do not intend to use the Remote Commander for a long time, remove the batteries to avoid damage from battery leakage. If a battery has leaked, remove the batteries, wipe the battery compartment dry and replace the batteries with new ones.

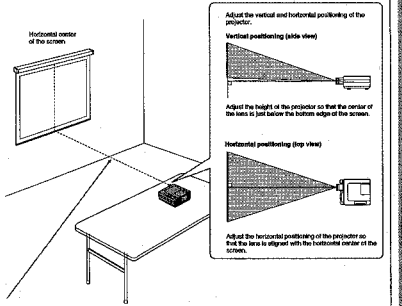
Notes on wireless Remote Commander operation

- Be sure that there is nothing to obstruct the infrared beam between the Remote Commander and the projector.
- The operation range is limited. The shorter the distance between the Remote Commander and the projector, the wider the angle within which the commander can control the projector.

- The remote control detectors on the projector do not operate when the Remote Commander is being used as a wired Remote Commander. If you wish to use the Remote Commander as a wireless Remote Commander, be sure to remove the connecting cable from both the Remote Commander and the projector.

Installing the Projector

This section describes the installation arrangements for installing the projector on a table. For ceiling installation, consult with qualified Sony personnel (see page 31 (EN)).


Horizontal center of the screen
Adjust the vertical and horizontal positioning of the projector.
Vertical positioning (side view)
Adjust the height of the projector so that the center of the lens is just below the bottom edge of the screen.
Horizontal positioning (top view)
Adjust the horizontal positioning of the projector so that the lens is aligned with the horizontal center of the screen.

The distance between the lens and the screen varies depending on the size of the screen. Use the following table as a guide.
The table below shows the projection distance for Macintosh 16" input (832 (horizontal) × 624 (vertical) dots). The projector distance will be longer by 1.5% for XGA input, by 4% for S VGA (800 × 600) and video input, and by 30% for VGA (640 × 480) input.

Unit: m (feet)

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
Distance	Minimum	1.5 (4.9)	2.3 (7.4)	3.0 (10.0)	3.8 (12.5)	4.6 (15.1)	5.8 (18.9)	7.0 (22.8)	7.7 (25.4)	9.7 (31.8)	11.5 (39.2)
	Maximum	2.2 (7.2)	3.3 (10.9)	4.5 (14.8)	5.6 (18.3)	6.7 (22.0)	8.4 (27.6)	10.1 (33.2)	11.3 (36.5)	14.1 (46.2)	16.8 (55.1)

For detailed information on installation measurements, see page 30 (EN).

Connecting with a Computer or a VCR

This section describes how to connect the projector with a computer or a VCR and external active speakers. For details on how to connect other equipment, see page 32 (EN).
Also refer to the instruction manuals of the equipment to be connected.

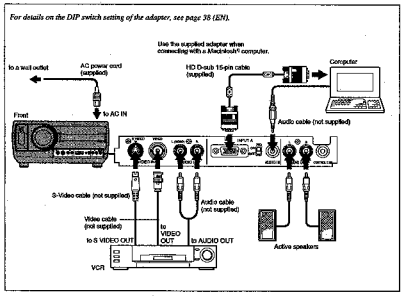
Notes

- This unit accepts the VGA, S VGA, and XGA signals. However, we recommend you to set the output mode of your computer to the S VGA mode for the external monitor.
- If you set your computer, such as a note-type IBM PC/AT compatible, to output the signal to both the display of your computer and the external monitor, the picture may not appear properly. In such cases, set the output mode of your computer to output the signal to only the external monitor. *For details, refer to the operating instructions supplied with your computer.*

When making connections, be sure to:

- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.

For details on the DIP switch setting of the adapter, see page 38 (EN).



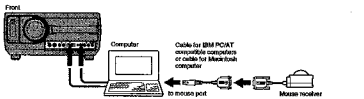
1) Macintosh is a registered trademark of Apple Computer, Inc.

Operating a Computer from the Remote Commander

If you connect the supplied mouse receiver to the mouse port of a computer, you can operate the mouse function of a computer with the Remote Commander.
Set the MOUSE/MENU switch to MOUSE when you operate a computer connected to the mouse receiver from the Remote Commander.
When the MENU/MOUSE switch is set to MOUSE, the MENU, ENTER keys and joy stick on the Remote Commander function as follows.

Key and joy stick	Function	
	IBM PC/AT1) compatible, Serial	Macintosh
MENU	Left button	Mouse button
ENTER (front)	Right button	Mouse button
ENTER (rear)	Right button	Mouse button
Joy stick	Corresponds with the movements of the mouse	

When using an IBM PC/AT compatible computer
For details, see the supplied RM-PJ21 operating instructions.



When your computer has a serial port, you can directly connect the mouse receiver cable to the port.
When you connect to the IBM PC/AT compatible or Macintosh computer, use the supplied conversion cables.

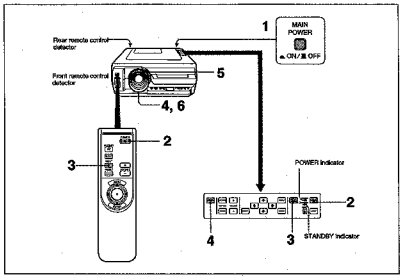
Computer	IBM PC/AT compatible	Macintosh
Conversion cable	Cable for IBM (for PC/AT compatible computer, PS/2 type) (Mini DIN 6-pin←→D-sub 9-pin)	Cable for Macintosh (Mini DIN 4 pin←→ D-sub 9-pin)

Note

Be sure that there is nothing to obstruct the infrared beam between the Remote Commander and the mouse receiver.

1) IBM PC/AT is a registered trademark of International Business Machines Corporation, U.S.A.

Projecting



1 Press the MAIN POWER switch on the rear of the projector (⏏ ON).

The STANDBY indicator lights in red and the projector goes into the standby mode.

2 Press the POWER key on the Remote Commander or the control panel.

The POWER indicator lights in green.

3 Switch on equipment connected to the projector. Press the INPUT SELECT key on the control panel or the INPUT key on the Remote Commander to select the input source.

INPUT A: Selects audio and video signals input from the INPUT A connectors.

VIDEO: Selects signal input from the VIDEO IN connectors and AUDIO IN L/R jacks.
(If you have made connections to both the S VIDEO and the VIDEO connectors, the signal from the S VIDEO connector is selected.)

4 Press the PATTERN key on the control panel to display the H test pattern, and turn the focus ring to adjust the focus.

Press the PATTERN key again to clear the pattern.

5 Turn the zoom ring to adjust the size of the picture.

6 Turn the focus ring again to adjust the focus.

Note

Do not look into the lens when the projector lamp is on.

To	Press
Adjust the volume	the VOLUME +/– keys.
Cut off the sound	the AUDIO MUTING key. To restore the sound, press the AUDIO MUTING key again or press the VOLUME + key.
Cut off the picture	the PICTURE MUTING key (PIC MUTING key on the Remote Commander). To restore the picture, press the PICTURE MUTING key again.

To turn off the power

1 Press the POWER key on the control panel or the Remote Commander.

The following message appears to verify if you really want to turn off the power.

Note

The message will disappear if you press a key except the POWER key, or if you do not press any key for five seconds.

2 Press the POWER key again on the control panel or the Remote Commander.

The POWER indicator flashes in green and the fan continues to run for about 90 seconds to reduce the internal heat. The POWER indicator flashes quickly for the first minute. During this time, you will not be able to turn the power back on with the POWER key. After about one minute, you can turn on the power with the POWER key.

3 Wait until the fan stops running and the STANDBY indicator lights in red; then press the MAIN POWER switch to turn off the main power (■ OFF).

When you cannot confirm the on-screen message

When you cannot confirm the on-screen message in a certain condition, you can turn off the power by holding the POWER key on the control panel or the Remote Commander for about one second.

Notes

- **Do not press the MAIN POWER switch while the fan is still running; the fan will stop while the lamp is still hot, leading to breakdown.**
- **To make the lamp life last longer, do not turn off the power at least for about 10 minutes after turning on the power.**

Using the MENU

The projector is equipped with an on-screen menu for making various adjustments and settings.
To select the language used in the menu, see page 27 (EN).

1 Press the MENU key.
The menu display appears.
The menu presently selected is highlighted in blue.

2 Use the ♦ or ♦ keys on the control panel to select a menu, then press the ♦ or the ENTER key. On the Remote Commander, move the joy stick up or down to select a menu, then move it to the right or press the ENTER key.
The selected menu appears.

Menus Setting items

3 Make setting or adjustment on an item.
For details on setting individual items, see the relevant menu pages.

To clear the menu display

Press the MENU key. The menu display disappears automatically if no key is pressed for one minute.

To reset items that have been adjusted

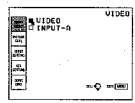
Press the RESET key. "Reset complete!" appears on the screen and the settings appearing on the screen will be reset to their factory preset values.

About the memory of the settings

The settings other than the INPUT SETTING menu are automatically stored to the projector memory. Adjustments made in the INPUT SETTING menu have to be saved with the SAVE TO MEMORY item in the INPUT SETTING menu.

The INPUT SELECT Menu

The INPUT SELECT menu is used for selecting the input signal.



Operation

Use the ↑ or the ↓ key on the control panel to select the input, then press ↔ key.
On the Remote Commander, move the joy stick up or down to select the input, then move it to the left.

VIDEO

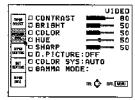
Selects signal input from the VIDEO IN (S VIDEO or VIDEO) connectors and the AUDIO IN L/R jacks. If you have equipment connected to both the VIDEO and the S VIDEO connectors, the S VIDEO will be selected.

INPUT-A

Selects the audio and video signals input from the INPUT A connectors.

The PICTURE CTRL Menu

The PICTURE CTRL menu is used for adjusting the picture. Adjustable items are displayed in green.



Operation

1. Select an item

Use the ↑ or the ↓ key on the control panel to select the item, then press the ↔ or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the item, then move it to the right or press the ENTER key.

2. Adjust an item

- When changing the adjustment level:
  To increase the number, press the ↑ or the → key.
  On the Remote Commander, move the joy stick up or to the right.
  To decrease the number, press the ↓ or the ← key.
  On the Remote Commander, move the joy stick down or to the left.
  Press the ENTER key to restore the original screen.

- When changing the setting:
  Press the ↑ or the ↓ key on the control panel to change the setting.
  On the Remote Commander, move the joy stick up or down to change the setting.
  To restore the original screen, press the ENTER or the ↔ key.
  On the Remote Commander, move the joy stick to the left.

CONTRAST

Adjusts the picture contrast.

The higher the setting, the greater the contrast.
The lower the setting, the lower the contrast.

BRIGHT

Adjusts the picture brightness.

The higher the setting, the brighter the picture.
The lower the setting, the darker the picture.

COLOR

Adjusts color intensity.

The higher the setting, the greater the intensity.
The lower the setting, the lower the intensity.

HUE

Adjusts skin tones.

A higher the setting, the picture becomes greenish.
A lower the setting, the picture becomes purplish.

SHARP

Adjusts the picture sharpness.

The higher the setting, the sharper the picture.
The lower the setting, the softer the picture.

D. (Dynamic) PICTURE

Emphasizes the black color.

ON: Emphasizes the black color to produce a bolder "dynamic" picture.
OFF: Reproduces the dark portions of the picture accurately, in accordance with the source signal.

COLOR SYS (System)

Selects the color system of the input signal.

Normally, set to AUTO.
If the picture is distorted or colorless, select the color system according to the input signal.

GAMMA MODE

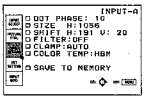
Selects a gamma correction curve.

GRAPHICS: Improves the reproduction of half tones. Photos can be reproduced in natural tones.
TEXT: Contrasts black and white. Suitable for images that contains lots of text.

Items cannot be adjusted depending on the types of input signal

Item	Cannot be adjusted with
COLOR	Signal input from INPUT A connectors, black-and-white signal
HUE	Input signal other than NTSC 3.58/4.43
SHARP	RGB signal
D. PICTURE	RGB signal
COLOR SYS	Signal input from INPUT A connectors
GAMMA MODE	Signal input from VIDEO IN connectors, component signal input from INPUT A connectors.

The INPUT SETTING menu is used to adjust the input signal. Adjustable items are displayed in green.



Operation

1. Select an item
Use the ↑ or ↓ key on the control panel to select the item, then press the ↵ or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the item, then move it to the right or press the ENTER key.

2. Adjust an item
• When changing the adjustment level:
To increase the number, press the → or the ↑ key.
On the Remote Commander, move the joy stick up or to the right.
To decrease the number, press the ← or the ↓ key.
On the Remote Commander, move the joy stick down or to the left.
Press the ENTER key to restore the original screen.

• When changing the setting:
Press the → or the ↓ key to change the setting.
On the Remote Commander, move the joy stick up or down to change the setting.
To restore the original screen, press the ENTER or the ↵ key.
On the Remote Commander, move the joy stick to the left.

DOT PHASE

Adjusts the dot phase of the LCD panel and the signal input from INPUT A.

SIZE

Adjusts the horizontal size of pictures input from INPUT A.

The higher the setting, the larger the horizontal size of the picture.
The lower the setting, the smaller the horizontal size of the picture. Adjust the setting according to the horizontal dots of the input signal.

Input signal	Setting
VGA[1] mode3 (640×480 dots)	800
VESA[2] 72 Hz (640×480 dots)	832
Macintosh13-inch mode (separate sync)	864
Macintosh16-inch mode	1152
VGA mode1 (640×350 dots)	800
VGA mode2 (640×400 dots)	800
VESA 75 Hz (640×480 dots)	840
S VGA VESA 56 Hz (800×600 dots)	1024
S VGA VESA 60 Hz (800×600 dots)	1056
S VGA VESA 72 Hz (800×600 dots)	1040
S VGA VESA 75Hz (800×600 dots)	1056
S VGA VESA 85 Hz (800×600 dots)	1048
XGA VESA 60 Hz (1024×768 dots)	1076
XGA VESA 72 Hz (1024×768 dots)	1063

Notes
• When a resolution of a signal input from the INPUT A connectors is less than 832 (horizontal) × 624 (vertical) dots, areas around the pictures are displayed in black.
• Compressed XGA signal is reproduced.

1) VGA is a registered trademark of International Business Machines Corporation, U.S.A.
2) VESA is a registered trademark of Video Electronics Standard Association.

SHIFT

Adjusts the position of the picture input from INPUT A.

H adjusts the horizontal position of the picture.
V adjusts the vertical position of the picture.
As the setting for H increases, the picture moves to the right, and as the setting decreases, the picture moves to the left.
As the setting for V increases, the picture moves up, and as the setting decreases, the picture moves down.
Use the ← or the → key to adjust the horizontal position and the ↑ and ↓ key for the vertical position.

FILTER

Corrects the vertical bands that appear on the picture input from INPUT A.

The vertical bands may occur when an RGB signal which horizontal resolution is other than 640 dots is input. In such cases, set to ON. The picture will loose some clarity, but the vertical bands will be reduced.
Set to OFF to associate a dot of the input signal with a pixel of the LCD.

CLAMP

Corrects the luminance of the picture input from INPUT A.

CLAMP is used as a standard for setting the black level of a picture correctly. The standard position of the clamp depends on the kind of sync. signal being used. Normally, the projector CPU judges the signal and sets the position automatically. However, the CPU can misjudge the signal because of noise. If the luminance of the picture seems to be incorrect (too dark, the black color is too light, or the luminance is unstable) the clamp position may need to be changed.

AUTO: Automatic setting mode. Normally set to this position.
SonG: Set to this position if the black seems too light or greenish.
H/C: Set to this position if the picture is too dark or luminance is unstable.

NOTE
If the luminance is still incorrect after changing the clamp setting, check the input signal and the connections.

COLOR TEMP

Adjusts the color temperature.

HIGH: Makes the white color bluish.
LOW: Makes the white color reddish.
HBM (High Brightness Mode): Reproduces a picture with high brightness.

SAVE TO MEMORY

You can save the settings in the INPUT SETTING menu in the projector memory. Whenever a new setting is saved, the previous settings are overwritten.

Once you have adjusted the settings, select SAVE TO MEMORY and press the ENTER or the → key. When the settings have been saved, the message "Saving is complete!" appears.

Items cannot be adjusted depending on the types of input signal

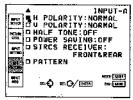
Item	Cannot be adjusted with
DOT PHASE	Signal input from VIDEO IN connectors
SIZE	Signal input from VIDEO IN connectors
FILTER	Signal input from VIDEO IN connectors, component input signal, 15k RGB signal
CLAMP	Signal input from VIDEO IN connectors, component input signal, 15k RGB signal
SHIFT	Signal input from VIDEO IN connectors

The SET SETTING Menu

The SET SETTING menu is used for changing the settings of the projector. Adjustable items are displayed in green.

<page 1>

<page 2>



The SET SETTING menu consists of two pages.
To change the page, press the ❖ or ❖ the key until the page changes when selecting an item.
On the Remote Commander, move the joy stick up or down until the page changes when selecting an item.

Operation

1. Select an item
Use the ❖ or the ❖ key on the control panel to select the item, then press the ❖ or the ENTER key.
On the Remote Commander, move the joy stick up or down to select the item, then move it to the right or press the ENTER key.

2. Change the setting
Press the ❖ or the ❖ key to change the setting.
On the Remote Commander, move the joy stick up or down to change the setting.
To restore the original screen, press the ENTER or the ❖ key.
On the Remote Commander, move the joy stick to the left.

STATUS (on-screen display)

Sets up the on-screen display.

ON: Shows all of the on-screen displays.
OFF: Turns off the on-screen displays except for the menus, "NO INPUT", "PIC/AUDIO MUTING", a message when turning off the power, and warning messages.
ALL OFF: Turns off all of the on-screen displays except for the menus, a message when turning off the power, and warning messages.

Note

When you set STATUS to ALL OFF, the displays for changing the adjustment level (which are displayed on one line at the bottom) are not displayed.

PIC. MUTING

Set to ON to cut off the picture.
When set to ON, "PIC MUTING" appears on the screen.

AUDIO MUTING

Set to ON to cut off the sound.
When set to ON, "AUDIO MUTING" appears on the screen.

SPEAKER

Set to OFF to cut off the sound of the internal speakers. When set to OFF, "SPEAKER OFF" appears on the screen when you turn on the power.

INPUT-A

Selects the RGB or COMPONENT signal input from INPUT A.

Note

If the setting is not correct, "Please check INPUT-A in the SET SETTING." appears on the screen and the color of the picture becomes strange or the picture is not displayed.

LANGUAGE

Selects the language used in the menu and on screen displays.

Available languages are: English, French, German, Italian, Spanish, Japanese and Chinese.

H (Horizontal) POLARITY

Set to REVERSE to reverse the horizontal orientation of the picture.

V (vertical) POLARITY

Set to REVERSE to reverse the vertical orientation of the picture.

HALF TONE

Set to ON to reduce the luminance of the menu background.

POWER SAVING

When set to ON, the projector goes into the power saving mode if no signal is input for 10 minutes. The power saving mode is canceled when a signal is input or whenever a key is pressed.

(Continued)

The SET SETTING Menu

SIRCS RECEIVER

Selects the remote control detectors on the front and rear of the projector.

FRONT & REAR: Activates both the front and rear detectors.
FRONT: Activates the front detector only.
REAR: Activates the rear detector only.

PATTERN

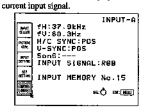
Press the ↔ or the ENTER key to display the H test pattern. Press the ↔ or the ENTER key to clear the pattern. The pattern disappears automatically if no key is pressed for one minute.

Item cannot be adjusted depending on the types of Input signal

Item	Cannot be adjusted with
INPUT-A	Signal input from VIDEO IN connectors

The INPUT INFO Menu

The INPUT INFO menu displays the information on a current input signal.



fH (Horizontal frequency)

Indicates the horizontal frequency of the input signal. This indication is only used as a reference, this is not absolute value.

fV (Vertical frequency)

Indicates the vertical frequency of the input signal. This indication is only used as a reference, this is not absolute value.

H/C (Horizontal/Composite)-SYNC

Indicates the polarity of the horizontal or the composite sync. signal. When the picture is being projected using its sync signal, POS (NEG) is displayed in green. When the picture is being projected without using sync signal, POS (NEG) is displayed in white.
POS: The polarity of the sync. signal is positive.
NEG: The polarity of the sync. signal is negative.
---: No sync. signal is input.

V(Vertical) SYNC

Indicates the polarity of the vertical sync. signal. When the picture is being projected using its sync signal, POS (NEG) is displayed in green. When the picture is being projected without using sync signal, POS (NEG) is displayed in white.
POS: The polarity of the sync. signal is positive.
NEG: The polarity of the sync. signal is negative.
---: No sync. signal is input.

SonG

Indicates the polarity of the Sync on Green. When the picture is being projected using its sync signal, NEG is displayed in green. When the picture is being projected without using sync signal, NEG is displayed in white.
NEG: The polarity of the sync. signal is negative.
---: No Sync. signal is input.

INPUT SIGNAL

Displays the type of current input signal.
NTSC 3.58: NTSC 3.58 input signal from VIDEO IN
NTSC 4.43: NTSC 4.43 input signal from VIDEO IN
PAL: PAL input signal from VIDEO IN
SECAM: SECAM input signal from VIDEO IN
PAL-M: PAL-M input signal form VIDEO IN
S-VIDEO: S-VIDEO input signal from VIDEO IN
RGB: RGB input signal
COMPONENT: Component input signal
B/W 50: Black and white input signal from VIDEO IN (vertical frequency: 50 Hz)
B/W 60: Black and white input signal from VIDEO IN (vertical frequency: 60 Hz)

INPUT MEMORY No.

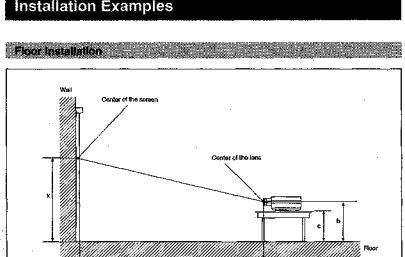
Indicates the memory number of the INPUT SETTING data used for current input signal.
Each preset signal is stored in following memory number.

Memory No.	Preset signals	fH(kHz)	fV(Hz)	Sync
01	VMode (60 Hz)	–	–	–
02	VMode (50 Hz)	–	–	–
03	15k RGB / Component(60 Hz)	–	–	Composite sync/ Sync on G
04	15k RGB/ Component(50 Hz)	–	–	Composite sync/ Sync on G
05	VGA mode9	31.5	59.9	H-neg V-neg
06	VESA 72Hz	37.9	72.8	H-neg V-pos
07	Macintosh 13" separate sync	35.0	66.7	H-neg V-neg
08	Macintosh 16"	49.7	74.6	H-neg V-neg
09	VGA mode1	31.5	70.1	H-neg V-neg
10	VGA mode2	31.5	70.1	H-neg V-pos
12	VESA 75 Hz	37.5	75.0	H-neg V-neg
14	S VGA 56 Hz	35.2	56.3	H-neg V-neg
15	S VGA 60 Hz	37.9	60.3	H-pos V-pos
16	S VGA 72 Hz	48.1	72.2	H-pos V-pos
17	S VGA 75 Hz	46.9	75.0	H-pos V-pos
18	S VGA 85 Hz	53.7	85.1	H-pos V-pos
19	XGA VESA 60 Hz	48.4	60.0	H-neg V-neg
20	XGA VESA 70 Hz	56.5	70.1	H-neg V-neg

When signals other than the preset signals are input and adjusted in the INPUT SETTING menu, they are stored in memory numbers 23 to 42.

Installation Examples

Floor Installation



a: distance between the screen and the center of the lens
b: distance from the floor to the center of the lens
c: distance from the floor to the foot of the projector
x: lens
* Example of calculation for Macintosh 16" input (832 x 624 dots)

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	152	180	200	250	300
a	Minimum	1470 (57 ⅞)	2280 (89)	3040 (119 ¾)	3820 (150 ⅜)	4600 (181 ⅛)	5770 (227 ⅛)	6950 (273 ⅝)	7730 (304 ⅜)	9690 (381 ⅛)	11640 (458 ⅛)
	Maximum	2180 (85 ⅞)	3360 (132 ⅜)	4450 (175 ⅛)	5580 (219 ⅝)	6720 (264 ⅝)	8420 (331 ⅛)	10123 (398 ⅜)	11250 (443)	14090 (554 ⅝)	16910 (665 ⅝)
b		x-256 (13 ⅛)	x-504 (19 ⅞)	x-672 (26 ½)	x-840 (33 ⅛)	x-1008 (39 ⅝)	x-1260 (49 ⅝)	x-1511 (59 ½)	x-1679 (66 ⅛)	x-2099 (82 ⅝)	x-2519 (99 ⅛)
c		x-447 (17 ⅝)	x-615 (24 ⅛)	x-783 (30 ⅞)	x-951 (37 ⅜)	x-1119 (44 ⅛)	x-1371 (54)	x-1622 (63 ⅞)	x-1790 (70 ⅛)	x-2210 (87 ⅛)	x-2630 (103 ⅝)

• Calculation of installation measurement (unit: mm) for Macintosh 16" input.
SS: screen size diagonal (inches)
a (minimum) = ((SS × 49.958/1.29) − 86) × 1.025
a (maximum) =((SS × 78.110/1.29) − 82) × 0.975
b = x − (SS/1.29 × 11)
c = x − (SS/1.29 × 11+111)

• Calculation of installation measurement (unit: mm) for S-VGA and Video input.
SS: screen size diagonal (inches)
a (minimum) = ((SS × 49.958/1.26) − 86) × 1.025
a (maximum) =((SS × 78.110/1.26) − 82) × 0.975
b = x − (SS/1.26 × 11)
c = x − (SS/1.26 × 11+111)

• Calculation of installation measurement (unit: mm) for SXGA input.
SS: screen size diagonal (inches)
a (minimum) = ((SS × 49.958/1.29) − 86) × 1.025
a (maximum) =((SS × 78.110/1.29) − 82) × 0.975
b = x − (SS/1.29 × 11)
c = x − (SS × 11+111)

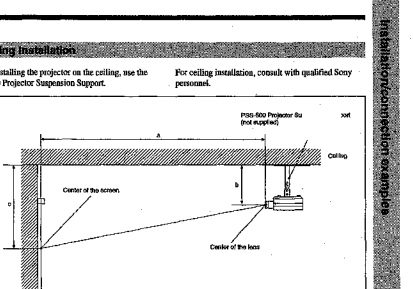
• Calculation of installation measurement (unit: mm) for XGA input.
SS: screen size diagonal (inches)
a (minimum) = ((SS × 49.958/1.29) − 86) × 1.025
a (maximum) =((SS × 78.110/1.29) − 82) × 0.975
b = x − (SS/1.29 × 11)
c = x − (SS × 11+111)

• Calculation of installation measurement (unit: mm) for VGA input.
SS: screen size diagonal (inches)
a (minimum) = ((SS × 49.958/1.26) − 86) × 1.025
a (maximum) =((SS × 78.110/1.26) − 82) × 0.975
b = x − (SS/1.26 × 11)
c = x − (SS/1.26 × 11+111)

Ceiling Installation

When installing the projector on the ceiling, use the PSS-500 Projector Suspension Support.

For ceiling installation, consult with qualified Sony personnel.



a: Distance between the screen and the center of lens
b: Distance between the ceiling and the center of the lens
c: Distance between the ceiling and the center of the screen
* Example of calculation for Macintosh 16" input (832 x 624 dots)

Unit: mm (inches)

Screen size (inches)		60	100	120	152	180	200	250	300
a	Minimum	3040 (119 ¾)	3820 (150 ⅜)	4600 (181 ⅛)	5770 (227 ⅛)	6950 (273 ⅝)	7730 (304 ⅜)	9690 (381 ⅛)	11640 (458 ⅛)
	Maximum	4450 (175 ⅛)	5580 (219 ⅝)	6720 (264 ⅝)	8420 (331 ⅛)	10120 (398 ⅜)	11250 (443)	14090 (554 ⅝)	16910 (665 ⅝)
b		247/272/297/347/372/397 mm (9 ¾ / 10 ⅝ / 11 ¾ / 13 ⅝ / 14 ⅝ / 15 ⅝ inches) adjustable							
c		b+672 (26 ½)	b+840 (33 ⅛)	b+1008 (39 ⅝)	b+1260 (49 ⅝)	b+1511 (59 ½)	b+1679 (66 ⅛)	b+2099 (82 ⅝)	b+2519 (99 ⅛)

• Calculation of installation measurement (unit: mm) for Macintosh 16" input.
SS: screen size diagonal (inches)
a (minimum) = ((SS × 49.958/1.29) − 86) × 1.025
a (maximum) =((SS × 78.110/1.29) − 82) × 0.975
c = b + (SS/1.29 × 11)

• Calculation of installation measurement (unit: mm) for SXGA input.
SS: screen size diagonal (inches)
a (minimum) = ((SS × 49.958/1.29) − 86) × 1.025
a (maximum) =((SS × 78.110/1.29) − 82) × 0.975
c = b + (SS/1.29 × 11)

• Calculation of installation measurement (unit: mm) for XGA input.
SS: screen size diagonal (inches)
a (minimum) = ((SS × 49.958/1.29) − 86) × 1.025
a (maximum) =((SS × 78.110/1.29) − 82) × 0.975
c = b + (SS/1.29 × 11)

• Calculation of installation measurement (unit: mm) for VGA input.
SS: screen size diagonal (inches)
a (minimum) = ((SS × 49.958) − 86) × 1.025
a (maximum) =((SS × 78.110) − 82) × 0.975
c = b + (SS × 11)

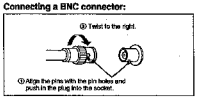
Connection Example

For details on how to connect a computer, a VCR or external active speakers, see page 14 (EN). Also refer to the instruction manual of the equipment to be connected.

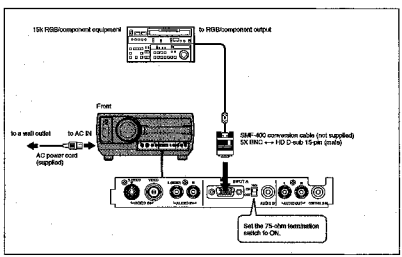
When making connections, be sure to:

- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.

Connecting a BNC connector:



Connecting 15k RGB/Component Equipment


15k RGB/component equipment
to RGB/component output
Front
to a wall outlet
to AC IN
AC power cord (supplied)
SMF-400 conversion cable (not supplied) 5X BNC ↔ HD D-sub 15-pin (male)
INPUT-A
Set the 75-ohm termination switch to On.

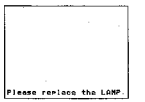
Notes

- This unit cannot accept separate sync signal with 15k RGB/component input signal. Use composite sync (negative) or Sync on Green.
- When inputting a frequency of VGA or an equivalent from an equipment such as scan-converter, use separate sync signal.
- This unit cannot accept a interlace signal of VGA or an equivalent other than 15k RGB/component signal.
- Select the RGB or COMPONENT signal with the INPUT-A item on the SET SETTING menu.

Maintenance

Replacing the Lamp

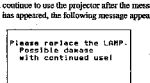
When it is time to replace the lamp, the message "Please replace the LAMP" appears on the screen when you turn on the projector. Once the message appears, replace the lamp promptly with a new PK-P1500[1] lamp.



The message disappears if any key on the control panel or the Remote Commander is pressed.

Notes

- If you continue to use the projector after the message above has appeared, the following message appears.



When this message appears, no key except the POWER key will be operable.

- After turning off the power, wait at least one hour before changing the lamp to give it time to cool down completely.

For details on replacement, refer to the instruction manual of the lamp.

Note

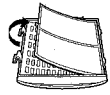
When the LAMP indicator lights up, never open the lamp cover if the projector is installed on the ceiling.

Cleaning the Air Filter

The air filter should be cleaned every 300 hours. When it becomes difficult to remove the dust from the filter, replace the filter with a new one.
To clean the air filter, follow the steps below:

1. Turn off the MAIN POWER switch and unplug the power cord.
2. Remove the air filter cover on the bottom of the projector.

3. Remove the air filter.



4. Remove the dust from the filter with a vacuum cleaner.
5. Attach the air filter and replace the cover.

Notes

- If the air filter is excessively dirty, wash it with a mild detergent solution and dry it in a shaded place.
- Be sure to attach the air filter cover firmly; the power will not be turned on if it is not closed securely.

1) PK-P1500 may not be available in some areas. For details, please consult your nearest Sony office.

Troubleshooting

If the projector appears to be operating erratically, try to diagnose and correct the problem, using the following guide. If the problem still persists, consult with qualified Sony personnel.

Symptom	Cause	Remedy
The power is not turned on.	The MAIN POWER switch is turned off.	Press the MAIN POWER switch at the rear of the projector *(see page 16 (EN))*.
	The power has been turned off and on with the POWER key at a short interval.	Wait for about one minute before turning on the power with the POWER key.
	The lamp cover is detached.	Close the lamp cover securely *(see page 33 (EN))*.
	The air filter cover is detached.	Close the air filter cover securely *(see page 33 (EN))*.
No picture and no sound.	Cable is disconnected.	Check that the proper connections have been made *(see pages 14 (EN) and 32 (EN))*.
	Input selection is incorrect.	Select the input source correctly.
No picture or no sound.	Either the picture or the sound is cut off.	Press the MUTING keys to release the muting function *(see page 17 (EN))*.
The picture is noisy.	Noise may appear on the background depending on the combination of the numbers of dot input from the connector and numbers of pixel on the LCD panel.	Change the desktop pattern on the connected computer.
When inputting sound through INPUT A, sound comes through one channel only.	Monaural sound is being input through the INPUT A connectors.	Input stereo sound.
The picture from INPUT A is colored strange.	Setting for INPUT-A in the SET SETTING menu is incorrect.	Select RGB or COMPONENT for INPUT-A in the SET SETTING menu according to the input signal *(see page 27 (EN))*.
"Please check INPUT-A in SET SETTING." appears in spite of inputting the correct signal from INPUT A.	Setting for INPUT-A in the SET SETTING menu is incorrect.	Select RGB or COMPONENT for INPUT-A in the SET SETTING menu according to the input signal (see page 27 (EN)).
"NO INPUT" appears when 15k RGB or component signal is input.	The sync signal is incorrect.	Input the correct sync signal (composite sync or sync on G signal: same on Y for component signal).
On-screen displays do not appear.	STATUS in the SET SETTING menu has been set to OFF or ALL OFF.	Set STATUS in the SET SETTING menu to ON *(see page 28 (EN))*.
Color balance is incorrect.	Picture has not been adjusted properly.	Adjust the picture *(see pages 21 (EN) and 22 (EN))*.
	Projector is set to wrong color system.	Set the COLOR SYS in the PICTURE CTRL menu to match the color system being input (see page 22 (EN)).
The picture is too dark.	Lamp is nearing the end of its life.	Change the lamp *(see page 33 (EN))*.
	Contrast or brightness has not been adjusted properly.	Adjust the contrast or brightness in the PICTURE CTRL menu properly (see page 21 (EN)).
The picture is not clear.	Picture is out of focus.	Adjust the focus *(see page 17 (EN))*.
	Condensation has occurred on the lens.	Leave the projector for about two hours with the power on.
The picture luminance is incorrect.	The CLAMP setting is wrong.	Set CLAMP correctly in the INPUT SETTING menu *(see page 24 (EN))*.
The LAMP indicator flashes.	The lamp cover or the air filter cover is detached.	Attach the cover securely *(see page 33 (EN))*.
The TEMP indicator lights up.	The internal temperature is unusually high.	Check to see that nothing is blocking the ventilation holes and leave the projector for about one hour *(see page 10 (EN))*.

Symptom	Cause	Remedy
The Remote Commander does not work.	The Remote Commander batteries are dead.	Replace with new batteries *(see page 12 (EN))*.
	The MOUSE/MENU switch has been switched to the MOUSE position.	Set the switch to MENU position.
	You are using the Remote Commander as a wireless Remote Commander, and it is connected to the projector.	Disconnect the cable.
	The unit is influenced of the fluorescent lamp.	Change the setting of SIRCS RECEIVER in the SET SETTING menu *(see page 26 (EN))*.
Any key does not function other than the POWER key.	The lamp has reached the end of its life.	Replace the lamp *(see page 31 (EN))*.

Note

- When the LAMP indicator lights up, **never open the lamp cover if the projector is installed on the ceiling.**
- If the lamp looks damaged when replacing, consult with qualified Sony personnel.
- If the lamp does not light even after replacing it with a new one, consult with qualified Sony personnel.
- If the TEMP indicator starts flashing, consult with qualified Sony personnel.

On-screen messages

Use the list below to check the meaning of the messages displayed on the screen.

Message	Meaning	Remedy
NO INPUT	No input signal	Check connections
Not applicable!	You have pressed the wrong key.	Press the appropriate key.
OPERATING TEMPERATURE TOO HIGH! This set will be shut down after 5 minutes.	Operating temperature is too high.	Turn off the power. Check to see that nothing is blocking the ventilation holes.
Frequency is out of range!	This input signal cannot be projected as the frequency is out of the acceptable range of the projector.	Input a signal that is within the range of the frequency.
Please check INPUT-A in SET SETTING.	You have input RGB signal from the computer when INPUT-A in the SET SETTING menu is set to COMPONENT.	Set INPUT-A correctly.
Please replace the LAMP.	The lamp has reached the end of its life.	Replace the lamp.

Maximum load: 15 kg (33 lb 1 oz)

The PSS-500 suspension support is designed to be used with models such as the Sony VPL-V500Q/QM LCD data projector or the Sony VPL-W400Q/QM LCD video projector.

Caution

- For installation, consult with qualified Sony personnel.
- The ceiling should be capable of supporting a weight of at least 80 kg (396 lb 13 oz); if not, the ceiling must be reinforced.
- When you attach the bracket directly to the ceiling, use commercially available M10 bolts with nuts and washers, depending on the ceiling. Use of other bolts, nuts, and washers other than M10 may present a danger of falling.
- Be sure to assemble and attach the bracket in the order indicated; otherwise the projector may fall.

Parts List

(a)	Upper ceiling mount bracket (1)	
(b)	Adjustment pipe (1)	
(c)	Adjustment pipe (1)	
(d)	Projector mount bracket (1)	
(e)	Bolt M6 x 35 (3) Parts number 4-055-828-11	

Parts List

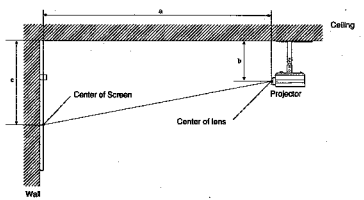
(f)	**Bolt M6 x 50 (2)**	Parts number 4047748-11	
(g)	**Screw M4 x 6**	Parts number 4047765-11	
(h)	**Washer M6 (3)**	Parts number 4055433-11	
(i)	**Washer M8 (4)**	Parts number 4047746-11	
(j)	**Spring washer M6 (3)**	Parts number 4055430-11	

(k)	**Toothed lock washer M8 (4)**	Parts number 4047749-11	
(l)	**Nut M8 (2)**	Parts numbe 4047742-11	
(m)	**6 mm pin (2)**	Parts number 4047744-11	
(n)	**Snap pin (2)**	Parts number 4047603-11	

Installation Diagram

For details of screen size and installation measurement for projection, refer to the Operating Manual of the projector or the Installation Manual of the projection lens (when using the optional lens).

Side view



a: Distance between the screen and the center of lens

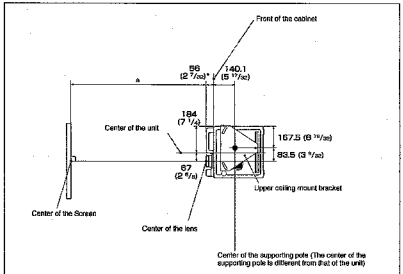
b: Distance between the ceiling and the center of lens. For details, see page 11.

c: Distance between the ceiling and the center of screen

Installation Diagram

Top view

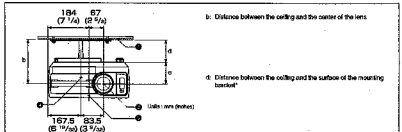
Align the center of the lens with the center of the screen.



* When using the standard lens equipped with VPL-V500Q/QM/W400Q/QM.

Front view

The lens is offset 83.5 mm (3 9/32 inches) to the right from the center of the supporting pole. When mounting, take care to align the center of the lens with the center of the screen; not the center of the supporting pole.



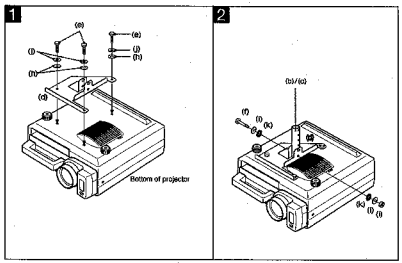
b: Distance between the ceiling and the center of the lens

d: Distance between the ceiling and the surface of the mounting bracket*

c: Distance between the bottom surface of the mounting bracket and the center of the lens: 97 mm (3 13/16 inches)

* Using adjustment plate (L) : 150/175/200 mm (5/7/7 7/8 inches)
Using adjustment plate (s) : 250/275/300 mm (9 7/8/10 7/8/11 13/16 inches)

Attaching to the ceiling

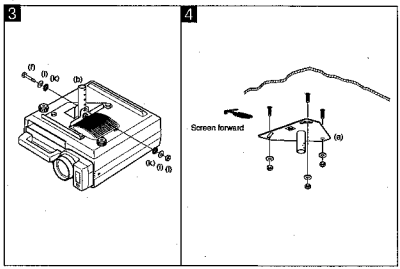


1 Turn the projector upside down and attach the projector mount bracket (d) using bolts M6 x 55 (e), washers M6 (h) and spring washers M6 (j).

Note

When attaching the bracket, be careful not to overtighten the bolts.

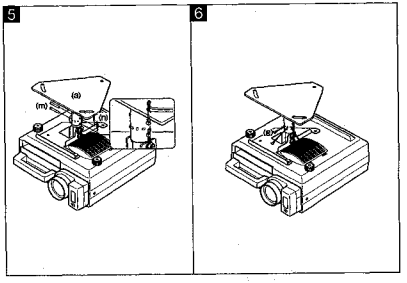
2 Attach adjustment pipe (b) or (c) to projector mount bracket (d) using bolt M8 x 50 (f), washers M8 (i), threaded lock washers M8 (k) and nuts M8 (l).
Adjustable height using the pipe (b) is 150/175/200 mm (6 0/7 7/8 inches).
Adjustable height using the pipe (c) is 250/275/300 mm (9 7/8 /10 7/8 /11 7/8 inches).



3 Attach the adjustment pipe to the projector mount bracket (d) using bolt M8 x 50 (f), toothed lock washers M8 (k), washers M8 (i) and nuts M8 (l). Attach the pipes so that the projector becomes level. You may tilt the projector slightly, but this will make the projected picture trapezoidal.

4 Attach the upper ceiling mount bracket (a) to the ceiling.
Use M 10 bolts, nuts and washers (not supplied).

Attaching to the ceiling



5 Insert the adjustment pipe into the upper ceiling mount bracket (a). Attach the pipe with the 6 mm pins (m) and the snap pins (n).
Pipe (b) can be adjusted to a height of 150/175/200 mm (6"/7" 7/8 inches); pipe (c) can be adjusted to a length of between 250/275/300 mm (9 7/8 /10 7/8 /11 7/8 inches).

6 Secure the ceiling mount bracket (a) and the adjustment pipe.
Use six M4 × 6 bolts (g).
Then, tighten the bolts you attached in step 3 to secure the adjustment pipe.

Installation Examples

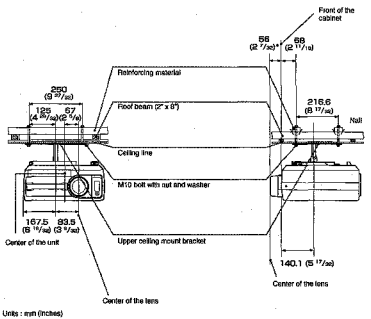
The following illustrations show the projector suspension support attached to with the ceiling. Installation is different depending on the material of ceiling.

Caution

Before installation, check that the maximum ceiling loading is in excess of 80 kg (396 lb 13oz) .

For wooden ceiling

For-one-story house or uppermost floor

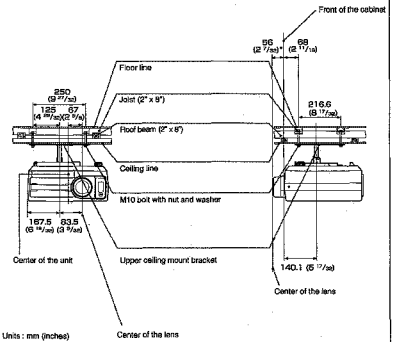


Units : mm (inches)

* When using the standard lens equipped with VPL-V500Q/QM/W400Q/QM.

Installation Examples

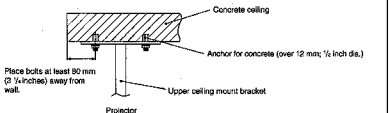
For other floors



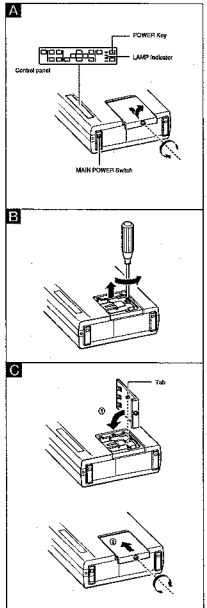
Units : mm (inches)

* When using the standard lens equipped with VPL-V500Q/QM/W400Q/QM.

For concrete ceiling


Concrete ceiling
Anchor for concrete (over 12 mm; ½ inch dia.)
Place bolts at least 80 mm (3 ⅛ inches) away from wall.
Upper ceiling mount bracket
Projector

1-3. PK-PJ500



Before operating the unit, please read this manual thoroughly and retain it for future reference.

The PK-PJ 500 lamp is designed to be used with the VPL-V500Q/QM LCD data projector only. Do not use it for any other projector as doing so may lead to breakdown or fire.

Before replacing the lamp

When the LAMP indicator lights up, never open the lamp cover if the projector is installed on the ceiling.

Replacing the lamp

1 When replacing the lamp immediately after using the projector, press the projector POWER key on the control panel or the remote commander. Wait for about 10 minutes. After the fan stops running, turn off the MAIN POWER switch. Wait for at least an hour for the lamp to cool.
Note
The lamp will still be very hot after turning off the MAIN POWER switch. Wait until the lamp has cooled completely before replacing.

2 Disconnect the power cord. After the lamp has cooled down completely, loosen the screw on the lamp cover (on the rear of the projector) using the supplied screw driver. Slide back the cover about 1 cm (⅜ inch), lift up and remove. (Figure A).

3 Loosen the screw on the lamp and pull the lamp out by the handle. (Figure B).

4 Insert the new lamp and push down securely. Tighten the screw.
Notes
- Be careful not to touch the lamp or the reflector.
- The power will not turn on if the lamp is not secured properly.

5 Close the lamp cover. (Figure C).
①Place the lamp cover, making sure that the tab on the back of the cover does not hit the cabinet.
②Slide the cover back, and tighten the screw.
Note
The POWER will not turn on if the lamp cover is not closed securely.

6 Connect the AC power cord and turn on the MAIN POWER switch. The projector will go into the standby mode.

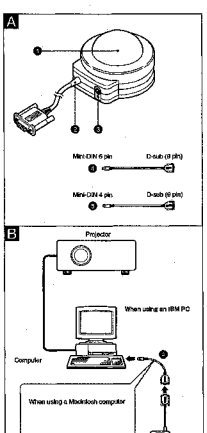
7 Press the following control panel keys in the following order for less than in five seconds each:
LIGHT, ←, →, ENTER.

If the message "Please replase the LAMP." appears on the screen after pressing the POWER key on the control panel or remote commander, repeat Step 7 again.

Disposal of used projector lamp

As the materials used in this lamp are similar to those of a fluorescent lamp, you should dispose of a used projector lamp in the same way as a fluorescent lamp.

1-4. RM-PJ21



The RM-PJ21 Mouse Receiver is designed to be connected to the port (PS/2, ADB, serial) on a computer or keyboard. The mouse receiver allows you to operate the computer's mouse function by remote control using Remote Commander (RM-PJM800 or RM-PJM500) with an air mouse function.

Parts Identification A

❶ Remote control detector
❷ Connecting cable (1 m, 39 3/8 inches)
❸ CONTROL S IN connector (Minijack)
Connects with a projector so that you can operate it with the Remote Commander.
❹ Cable for IBM (PC/AT compatible computer PS/2 type)
Use to connect the serial receiver to an IBM PC/AT compatible computer.
❺ Cable for Macintosh computers
Use to connect the mouse receiver to a Macintosh computer.

Connecting B

If your computer has a serial port, you can directly connect the Mouse Receiver cable to the port.
If the computer is an IBM PC/AT[1] or a Macintosh[2], connect the conversion cable (supplied) to the mouse receiver cable; plug the cable into the port on the computer or keyboard. (See Figure B)

1) IBM PC/AT is a registered trademark of International Business Machines Corporation, U.S.A.
2) Macintosh is a registered trademark of the Apple Computer, Inc.

Remote Commander settings and functions

Set the MENU/MOUSE switch of the Remote Commander to MOUSE. Once set to MOUSE, the MENU, ENTER keys and joy stick function according to the following table. When operating the Remote Commander, point it towards the mouse receiver.

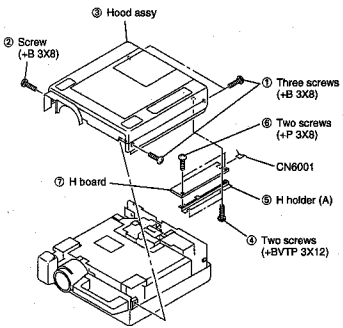
Key	Function	
	Serial, IBM PC/AT compatible	Macintosh
MENU	Left button	Mouse button
ENTER (front)	Right button	Mouse button
ENTER (rear)	Right button	Mouse button
Joy stick	Corresponds with the movements of the mouse	

Notes

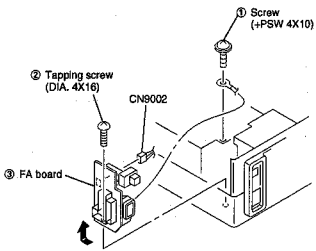
- Be sure that there is nothing to obstruct the infrared beam between the Remote Commander and the mouse receiver.
- The CONTROL S IN connector does not supply power. Use the proper power source such as AC adapter to provide proper power to any connected equipment.
- If you connect the mouse receiver to a serial port on the computer, the computer must be set accordingly in the operating system. For details, contact your computer manufacturer.

SECTION 2
DISASSEMBLY

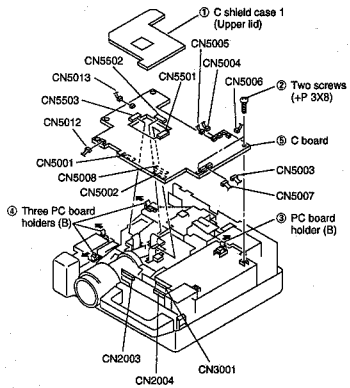
2-1. HOOD ASSY AND H BOARD REMOVAL



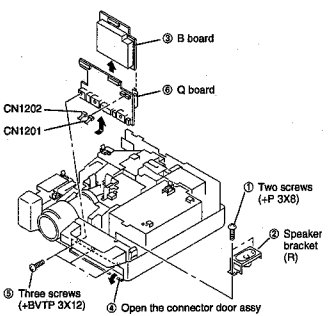
2-2. FA BOARD REMOVAL



2-3. C BOARD REMOVAL

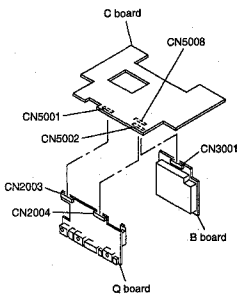


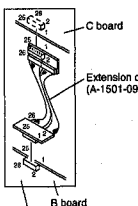
2-4. B AND Q BOARDS REMOVAL

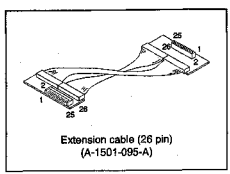


2-5. EXTENSION CABLE

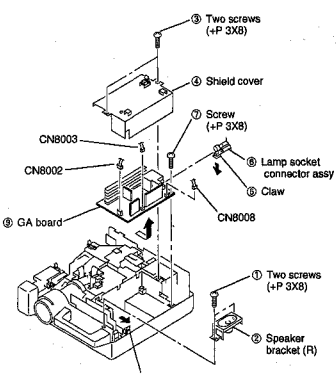
NOTE: Accord the extension cable's pin No (1, 2 sides and 25, 26 sides) with the other joint connector's pin No (1, 2 sides and 25, 26 sides).



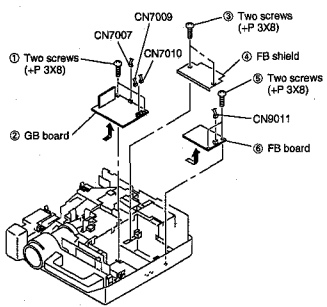




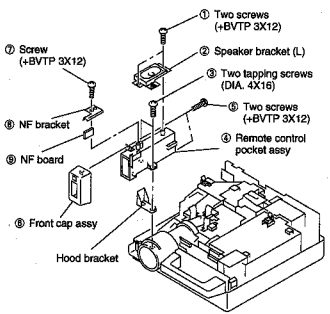
2-6. GA BOARD REMOVAL



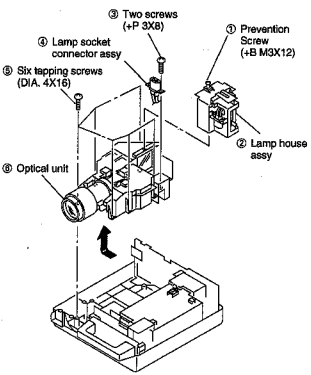
2-7. GB AND FB BOARDS REMOVAL



2-8. NF BOARD REMOVAL

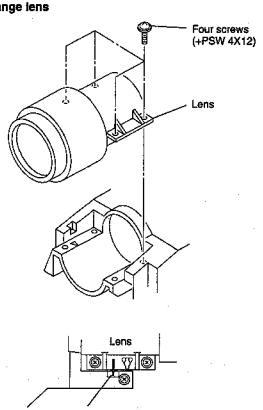

① Two screws (+BVTP 3X12)
⑦ Screw (+BVTP 3X12)
② Speaker bracket (L)
③ Two tapping screws (DIA. 4X16)
⑤ Two screws (+BVTP 3X12)
⑧ NF bracket
④ Remote control pocket assy
⑨ NF board
⑥ Front cap assy
Hood bracket

2-9. OPTICAL UNIT REMOVAL


③ Two screws (+P 3X8)
① Prevention Screw (+B M3X12)
④ Lamp socket connector assy
⑤ Six tapping screws (DIA. 4X16)
② Lamp house assy
⑥ Optical unit

2-10. HOW TO EXCHANGE PROJECTION LENS

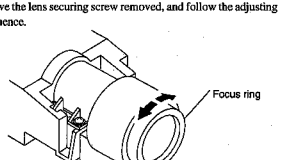
(1) Exchange lens



(2) Tracking adjustment for standard zoom lens

Adjustment is necessary when the prism block is changed.
(Just align the markings as shown below on the left when only the lens is changed. Adjustment is unnecessary.)

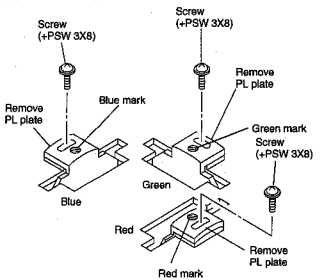
* Align the marking as shown below on the left. If the focus is satisfactory (1-dot resolution), tracking adjustment is unnecessary.
* Any projection size is available when it's within 40~100inches extent.
* The projected image under the state in which flexible cable for the panel is removed (normal white) is satisfactory.
* Leave the lens securing screw removed, and follow the adjusting sequence.



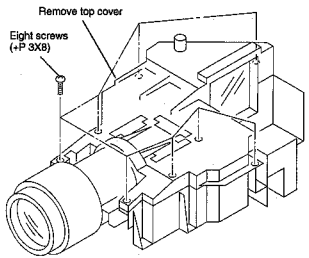
Procedure
(0) Focus Ring=Mid Position
(1) Zoom Ring=Tele End
(2) Adjust focus using Focus Ring
(3) Zoom Ring=Wide End
(4) Move the lens back and forth for focusing
(5) Go to (1)

2-11. HOW TO EXCHANGE 4P-PRISM

(1) Unfasten PL plate

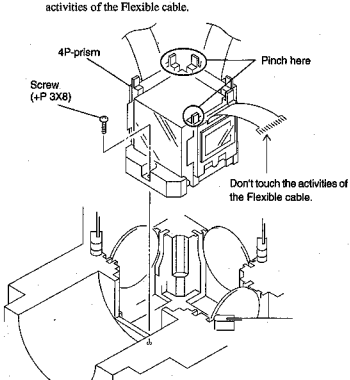


(2) Remove top cover



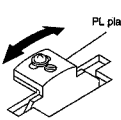
(3) Exchange 4p-prism

NOTE: Don't touch prism glass and LCD panel, especially the activities of the Flexible cable.



(4) PL plate adjustment

Adjust to darken to the maximum.



○0% Flat Field Input
○CONT=80, BRT=MIN

SECTION 3
SET-UP ADJUSTMENTS

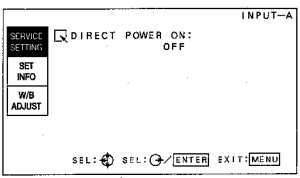
3-1. SERVICE MODE

Perform the below command to set to the SERVICE MODE and perform adjustment/establishment of the release area for SERVICE.

ENTER → ENTER → [↑] → [↓] → ENTER

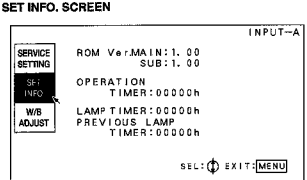
During the SERVICE MODE, "S (YELLOW)" letters are stand above the MAIN MENU display while the MENU display.
Use the same method to cancel the mode.

SERVICE SETTING SCREEN INITIAL VALUE: OFF



When the MAIN SW on and simultaneous with the POWER ON working mode however when POWER ON.
When perform POWER OFF, surely use POWER OFF key of the remote commander or control panel and MAIN SW off after cooling the set.

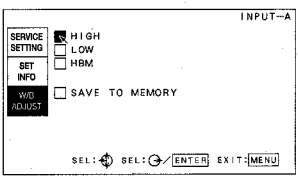
SET INFO. SCREEN



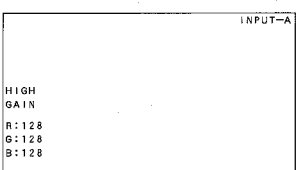
ROM Ver. :
Displays version No. of main and OSD micro computers on the set.
OPERATION TIMER :
Displays the running time of the set.
LAMP TIMER :
Displays the (lamp using time) lamp light time.
PREVIOUS LAMP TIMER :
Displays using time of the previous lamp.

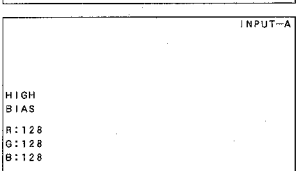
W/B ADJUST SCREEN

Establish the color temperature by W/B ADJUST screen and adjust each RGB data by W/B GAIN or BIAS SCREEN.
After perform the SAVE to MEMORY, memorize these adjustment values.
When enter to each mode and displays like below screen.



GAIN&BIAS ADJUSTMENT SCREEN



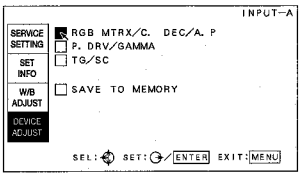


3-2. FACTORY MODE

Enter device adjustment after below commands during SERVICE MODE
(Enter FACTORY MODE.)

ENTER → ENTER → ← → ENTER

Use the same method to cancel the mode.



Example of 1line display adjustment screen.

RGB MTRX/C.DEC/A.P.

```
01 RGB MTRX/AGING1:  0
```

P.DRV/GAMMA

```
01 P. DRV/VCOMG:80
```

TG/SG

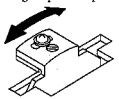
```
1 TG/FRP:  0
```

DEVICE ADJUSTMENT TABLE

DEVICE	ADDRESS	ITEM
RGB MTRX	01	AGING 1
	02	AGING 2
	03	SUB HUE
	04	SUB BRT
	05	R-Y/R
	06	R-Y/B
	07	G-Y/R
	08	G-Y/B
	09	VIDEO CON
	10	VIDEO COL
	11	RGB LVL
	12	OSD LVL
	13	SUB SHP
	14	SHPF0
	15	PRE OVER
	16	NR LVL
	17	DC TRAN
	18	DMIC PIC
	19	CBC LVL
C. DEC	20	HUE
	21	Y DELAY
A. P.	22	BASS
	23	TREBLE
	24	BALANCE
	25	LOUDNESS
	26	SUB AttL
	27	SUB AttR
P. DRV	01	V COM G
	02	V COM R
	03	V COM B
GAMMA	04	G SBRT
	05	R SBRT
	06	B SBRT
	07	G GAIN
	08	R GAIN
	09	B GAIN
	10	G GM B2G
	11	G GM B2P
	12	G GM B1G
	13	G GM B1P
	14	G GM WHG
	15	G GM WHP
	16	R GM B2G
	17	R GM B2P
	18	R GM B1G
	19	R GM B1P
	20	R GM WHG
	21	R GM WHP
	22	B GM B2G
	23	B GM B2P
	24	B GM B1G
	25	B GM B1P
	26	B GM WHG
	27	B GM WHP
TG	01	FRP
SC	02	H SHIFT
	03	V SHIFT
	04	H PHASE
	05	V PHASE
	06	H SZRD1
	07	H SZRD2
	08	H SZWR1
	09	H SZWR2
	10	MD0

3-3. POLARIZER PLATE ADJUSTMENT

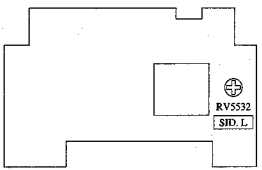
1. Input the all black signal.
   (Both INPUT A and Video can be used for input.)
   The fan must be operated.
   Atmosphere surrounding the screen must be sufficiently dark.
   Set the Bright and Contrast in the Min position.
2. Check the VCOM voltage.
   VCOM: +6.4 ± 0.3V
3. Loosen the screws securing the polarizer plate.



4. Adjust the position of the polarizer plate where the brightness of all R, G and B channels is minimum respectively.
5. Tighten the screws securing the polarizer plate.
   Tightening torque :
   0.8±0.1 (N · m)
   0.8±1.0 (kg · cm)

3-4. SID LEVEL ADJUSTMENT

C Board (Component Side)



1. SID Level Adjustment

Input SVGA 10 STEP.
Adjust RV5532 so that the voltage at pin ① of CN5502 will satisfy the specifications.

3-5. ADJUSTMENT

Enter the FACTORY mode. (Refer to 3-2. FACTRY MODE)

1. V-COM Adjustment

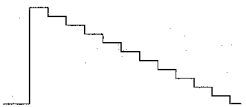
Input the 1H inverted signal to INPUT A.
Shade R and B.
Make settings as follows:
CONTRAST 50
BRIGHT 50
The VCOM G adjustment screen for device adjustment appears.
Adjust to the point where flicker is minimized.
For both Red and Blue, adjust VCOM R and VCOM B respectively to the point where flicker is minimized.
Memorize the adjustment data into memory.

2. Signal Level Adjustment

Y MODE: GRAPHICS
INPUT A: Stair step signal of 10 steps
VIDEO: 100% color bar signal
Set CONTRAST to 80 and BRIGHT to 50 (RESET).
W/B mode: HBM

1. RGB Level Adjustment
   Adjust the R/G/B GAIN and R/G/B BIAS of W/B HBM MODE controls respectively until the signal amplitude at TP5010, TP5011 and TP5012 satisfies the specifications as shown.
   Memorize the adjustment data into memory.

   R, G and B signal level specifications
   HBM MODE
   TP5010, 5011, 5012: 0IRE 2.00 ± 0.05 Vdc
   100 IRE 3.00 ± 0.05 Vdc



2. VIDEO Level Adjustment
   Set Contrast to 85. Bright should remain 50.
   Input the 15k component flat field 100 IRE signal to VIDEO input.
   Adjust R/G/B GAIN and R/G/B BIAS of W/B HBM MODE.
   Memorize the adjustment data into memory.
   Input the 100% color bar signal of 15k RGB, then NTSC and PAL signals, and adjust RGB MTRX VIDEO CON in HBM MODE so that TP5011 satisfies the specifications.
   Memorize the adjustment data into memory.

Return Contrast to 80.
Input the PAL, 15k RGB, then 15k component and NTSC signals for tracking adjustment so that the level of TP5012 satisfies the specifications.
Adjust RGB MTRX SUB HUE control until the amplitude b = c is obtained.
Adjust RGB MTRX VIDEO COLOR until the amplitude a = d is obtained.
Memorize the adjustment data into memory.
For PAL signal, adjust the VIDEO COLOR only.

On 15K Component

Perform this adjustment using the following 100% color bar signal of the Betacam specification for USA/Canada and Japan models:
Y = 0.714 V from pedestal to 100 IRE
B-Y/R-Y = 0.933 Vp-p
Perform this adjustment using the following 100% color bar signal of the EBU specification for AEP (general European) model:
Y = 0.7 V from pedestal to 100 IRE
B-Y/R-Y = 0.7 Vp-p

VIDEO level specifications
HBM: At all of TP 5010, TP5011 and TP5012:
0 IRE 2.00 ± 0.05 Vdc
100 IRE 3.00 ± 0.05 Vdc

VIDEO COLOR and HUE adjustments specifications

TP5012 : a = b ±10%

3. Y.W/B (White Balance) Adjustment

Set the zoom to the WIDE end, and attach the W/B adjustment jig.
INPUT A RGB: Flat field
INPUT A COMPONENT: Flat field

<Conditions>

1. Allow pre-aging of 15 minutes or more.
2. Perform this adjustment with the lens set to the WIDE end.
3. Let the OSD (on-screen display) disappear when measuring chromaticity.

This series of projector has the six independent memories in total, for three modes of HBM, HIGH and LOW for the two inputs of RGB and VIDEO respectively.

1. Y Adjustment

*1. Graphic Mode Adjustment
Enter the HMB MODE by changing the γ MODE to Graphics.
Input SVGA FLAT FIELD 100 IRE to INPUT A.
Set CONTRAST and BRIGHT in the MAX position.
Measure Ygmag, the brightness of BLUE single color.
Set CONTRAST at 80 and BRIGHT at 50 (RESET).
* Use a lighttight plate to measure a single color.
Input SVGA Green single color FLAT FIELD 80 IRE to INPUT A, and adjust G SBRT so that the brightness Y80 will satisfy the specifications.
Input SVGA Green single color FLAT FIELD 40 IRE to INPUT A, and adjust G GAIN so that the brightness Y40 will satisfy the specifications.
Input SVGA Green single color FLAT FIELD 20 IRE to INPUT A, and adjust G GM BIP so that the brightness Y20 will satisfy the specifications.
Input SVGA Green single color FLAT FIELD 10 IRE to INPUT A, and adjust G GM B2P so that the brightness Y10 will satisfy the specifications.

Brightness adjustment specifications
Y80 = Ymax × 0.64 ± 4%
Y40 = Y80 × 0.218 ± 4%
Y20 = Y80 × 0.0474 −3 +7%
Y10 = Y80 × 0.0108 0 +15%
The brightness should be the average of 5 measurements.

In the same way, adjust SBRT, GAIN, GM B1P, and GM B2P for Red single color and Blue single color.
Memorize the adjustment data into memory.

*2. Text Mode Adjustment
Set the γ MODE to text.
Process the value adjusted in *1 as the following above and copy the result. Memorize the adjustment data into memory.

For all colors (excl. SBRT)
SBRT: Adjustment value -5 (Red, Green) in Graphics Mode
Adjustment value -6 (Blue) in Graphics Mode
GAIN: Adjustment value -30 in Graphics Mode
When the minimum value of R/G/B < 30
B1P: Adjustment value as it is in Graphics Mode
B2P: Adjustment value as it is in Graphics Mode

2. RGB W/B (White Balance) Adjustment

*1. LOW MODE Adjustment (Enter the LOW MODE.)
Process the value adjusted in the HBM MODE as the following below and copy the result.
Memorize the adjustment data into memory.

R GAIN: Adjustment value as it is in HBM MODE
G GAIN: Adjustment value -20 in HBM MODE
B GAIN: Adjustment value -24 in HBM MODE
R/G/B BIAS: Adjustment value as it is in HBM MODE

*2. HIGH MODE Adjustment (Enter the HIGH MODE.)
Process the value adjusted in the HBM MODE as shown below and copy the result.
Memorize the adjustment data into memory.

R GAIN: Adjustment value –24 in HBM MODE
G GAIN: Adjustment value –10 in HBM MODE
B GAIN: Adjustment value +5 in HBM MODE
R/B BIAS: Adjustment value as it is in HBM MODE
G BIAS: Adjustment value –1 in HBM MODE

Change INPUT A of SET SETTING to COMPONENT.
Set CONTRAST at 80 and BRIGHT at 50 (RESET).

3. VIDEO W/B (White Balance) Adjustment
Not only 15 component, but NTSC or PAL can be used for input.
Copy data in the HBM MODE into LOW/HIGH MODE.

*1. LOW MODE Adjustment (Enter the LOW MODE.)
Input 15K Component FLAT FIELD 80 IRE to INPUT A.
Adjust the y value by G GAIN so that it will satisfy the specifications.
Adjust only the colors shown below.

LOW MODE adjustment specifications
80 IRE: (x, y) = (308, 343) ± 0.005
30 IRE: (x, y) = (308, 343) ± 0.007
Adjusting color (When y = y Spec.) : x ≧ x Spec. → G, R
: x < x Spec. → G, B

Input 15K Component FLAT FIELD 80 IRE to INPUT A.
Make adjustment by the GAIN of the adjusting color so that it will satisfy the specifications.
Input 15K Component FLAT FIELD 30 IRE to INPUT A.
Make adjustment by the BIAS of the adjusting color so that it will satisfy the specifications.
Repeat BIAS and GAIN adjustment and make tracking adjustment so that both 30 IRE and 80 IRE satisfy the specifications.
Memorize the adjustment data into memory.

*2. HIGH MODE Adjustment (Enter the HIGH MODE.)
Input 15K Component FLAT FIELD 80 IRE to INPUT A.
Adjust the y value by G GAIN so that it will satisfy the specifications.
Adjust only the colors shown below.

HIGH MODE adjustment specifications
80 IRE: (x, y) = (288, 316) ± 0.005
30 IRE: (x, y) = (288, 316) ± 0.007
Adjusting color (When y = y Spec.) : x ≧ x Spec. → G, R
: x < x Spec. → G, B

Input 15K Component FLAT FIELD 80 IRE to INPUT A.
Make adjustment by the GAIN of the adjusting color so that it will satisfy the specifications.
Input 15K Component FLAT FIELD 30 IRE to INPUT A.
Make adjustment by the BIAS of the adjusting color so that it will satisfy the specifications.
Repeat BIAS and GAIN adjustment and make tracking adjustment so that both 30 IRE and 80 IRE satisfy the specifications.
Memorize the adjustment data into memory.

Change INPUT A of SET SETTING to RGB.

3-6. SERVICE KNOW-HOW

1. When the Prism Block is Replaced.

1. Perform the polarizing plate adjustment. Refer to page 40.
2. Perform the V. COM adjustment. Refer to page 40.
3. Perform the white balance adjustment. Refer to page 41.
4. Adjust the lens tracking only when focusing is unsatisfactory. Refer to page 36.

2. When the Q Board is Replaced.

1. Perform the VIDEO level adjustment. Refer to page 40.
If all of the 15k component, 15k RGB, NTSC and PAL are adjusted in the HBM mode, the W/B re-adjustment is not necessary.
The adjustment for the RGB signal is not necessary.

3. When the B Board is Replaced.

Perform the operation check only.

4. When the C Board is Replaced.

Enter the service mode as follows.
The procedure to enter the service mode:

1. Use the menu and confirm that the STATUS ON is set.
2. Let the menu disappear.
3. Press the keys in the following order:
ENTER, ENTER, UP, DOWN, ENTER
4. The message <Do you wish to enter the SERVICE MODE?> appears.
5. Select YES.

6. Press the keys in the following order:
   ENTER, ENTER, LEFT, ENTER
7. The message <Do you wish to enter the FACTORY MODE?> appears.
8. Select YES.

Input the following signals to the INPUT A and VIDEO connectors.

NOTE: When the C Board is replaced, write down the old Board data, and memorize the same data into the New C Board. Perform the V-COM adjustment again.

1. V-COM Adjustment (P.DRV)
   Perform the V-COM adjustment. Refer to page 40.

2. γ Adjustment
   Select INPUT A.
   Enter the DEVICE ADJUST menu screen of the menu.
   In advance, write down the old Board data, and memorize the same data into the New C Board.

   Memorize the following values into memory:
   In Graphic MODE:
   Memorize the following 12 data on R, G, and B:
   SBRT, GAIN, B1P, and B2P × 3 colors = 12 data
   In text MODE:
   Memorize the above-mentioned 12 data on R, G, and B in the same manner.

3. Signal Level Adjustment
   Enter the W/B adjustment menu display of the menu.
   In advance, write down the old Board data, and memorize the same data into the New C Board.

1. RGB level adjustment
   Select the INPUT A.
   Enter the HBM mode.
   Memorize the adjustment values of GAIN and BIAS of all three channel of R. G. and B. into memory.
   Enter the LOW mode.
   Memorize the adjustment values of GAIN and BIAS of all three channels of R. G. and B. into memory.
2. VIDEO level adjustment
   Select the VIDEO input.
   Enter the HBM mode.
   Memorize the adjustment values of GAIN and BIAS of all three channels of R. G. and B. into memory.
   Enter the LOW mode.
   Memorize the adjustment values of GAIN and BIAS of all three channels of R. G. and B. into memory.
   Enter the HIGH mode.
   Memorize the adjustment values of GAIN and BIAS of all three channels of R. G. and B. into memory.
3. VIDEO system SUB HUE, VIDEO COLOR and VIDEO CONT adjustment
   Perform the adjustments of PAL, 15k RGB, 15k component and NTSC respectively.
   The PAL adjustment does not have the SUB HUE adjustment.
   Enter the DEVICE ADJUST menu display of the menu.
   Memorize the 03: SUB HUE, 09: VIDEO CON and 10: VIDEO COL values of DEV 1839 into memory.

Because independent memory for each of the above four types of signals are prepared in memory, the respective data must be stored in their memory.
Be sure to input the corresponding input signal for each adjustment.
To perform the 15k component signal adjustment, change the INPUT A to COMPONENT using the SET SETTING menu display of the menu.
To perform the 15k RGB adjustment, return the INPUT A to RGB.
The alternate plan when the signal generator is not available.

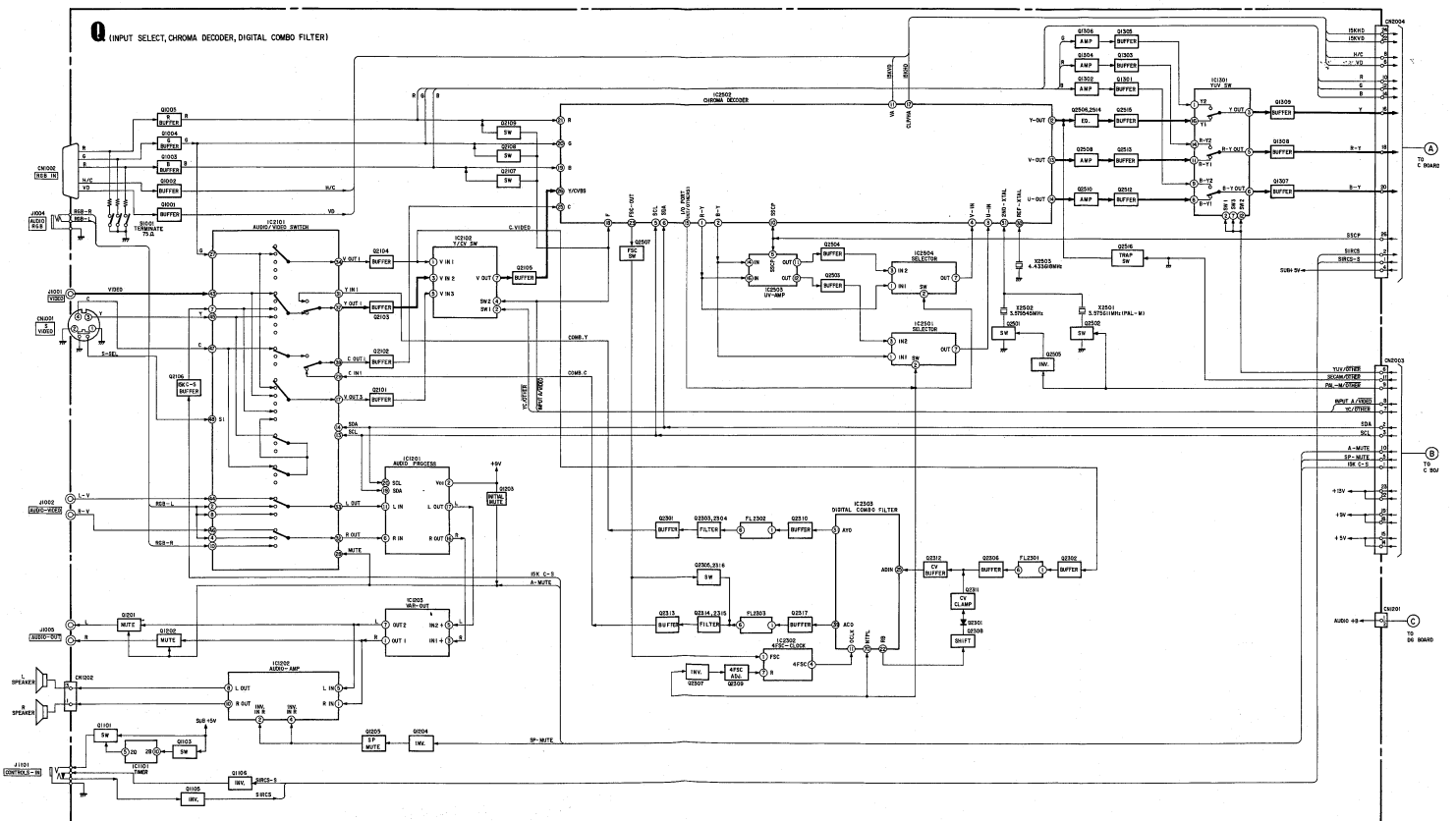
One NTSC signal can work as follows:
When the NTSC signal generator is used as PAL signal, put the color system of the projector into the Forced PAL mode using the menu.
When the NTSC signal generator is used as 15k RGB signal, use the composite video signal as the SYNC ON GREEN signal using the HD15 - 5 BNC cable.
When the NTSC signal generator is used as 15k component signal, use the composite video signal as the SYNC ON T signal using the HD15 - 5 BNC cable.

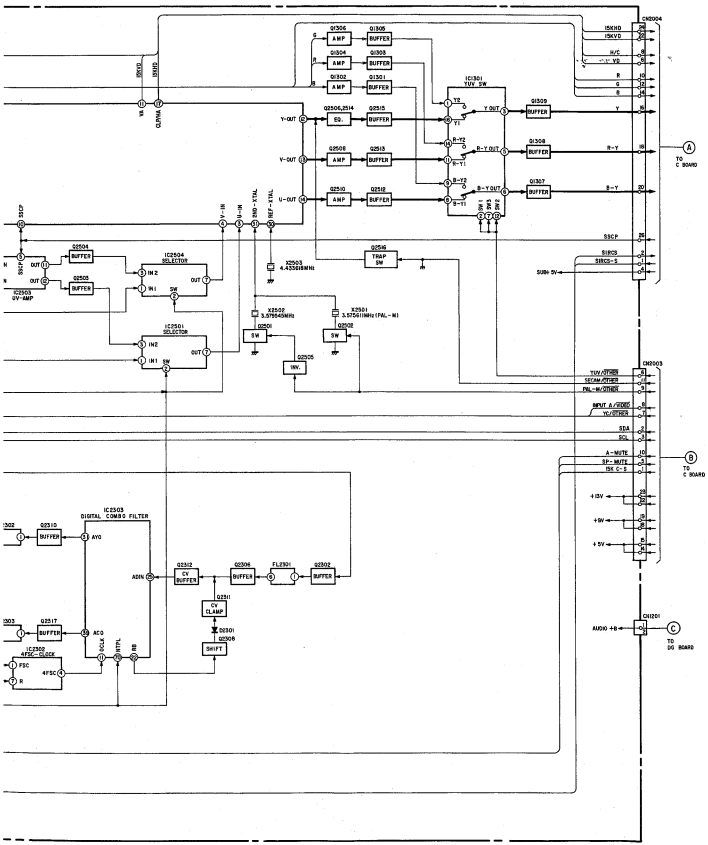
Return to the USER mode as follows:

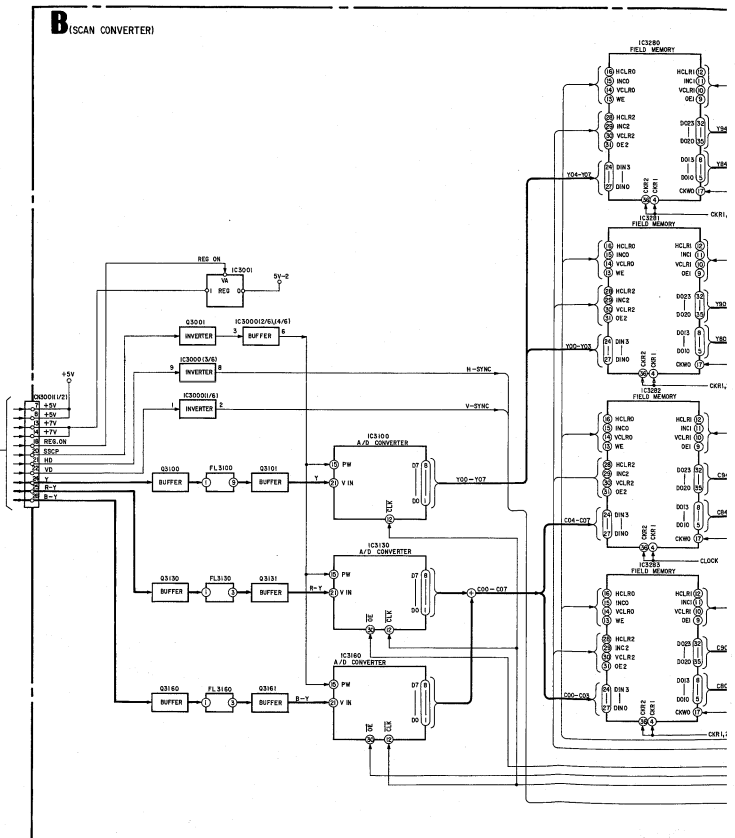
The procedure to return to the USER mode:
1. Use the menu and confirm that the STATUS ON is set.
2. Let the menu disappear.
3. Press the keys in the following order:
   ENTER, ENTER, LEFT, ENTER
4. The message <Do you wish to return to the USER MODE?> appears.
5. Select YES.

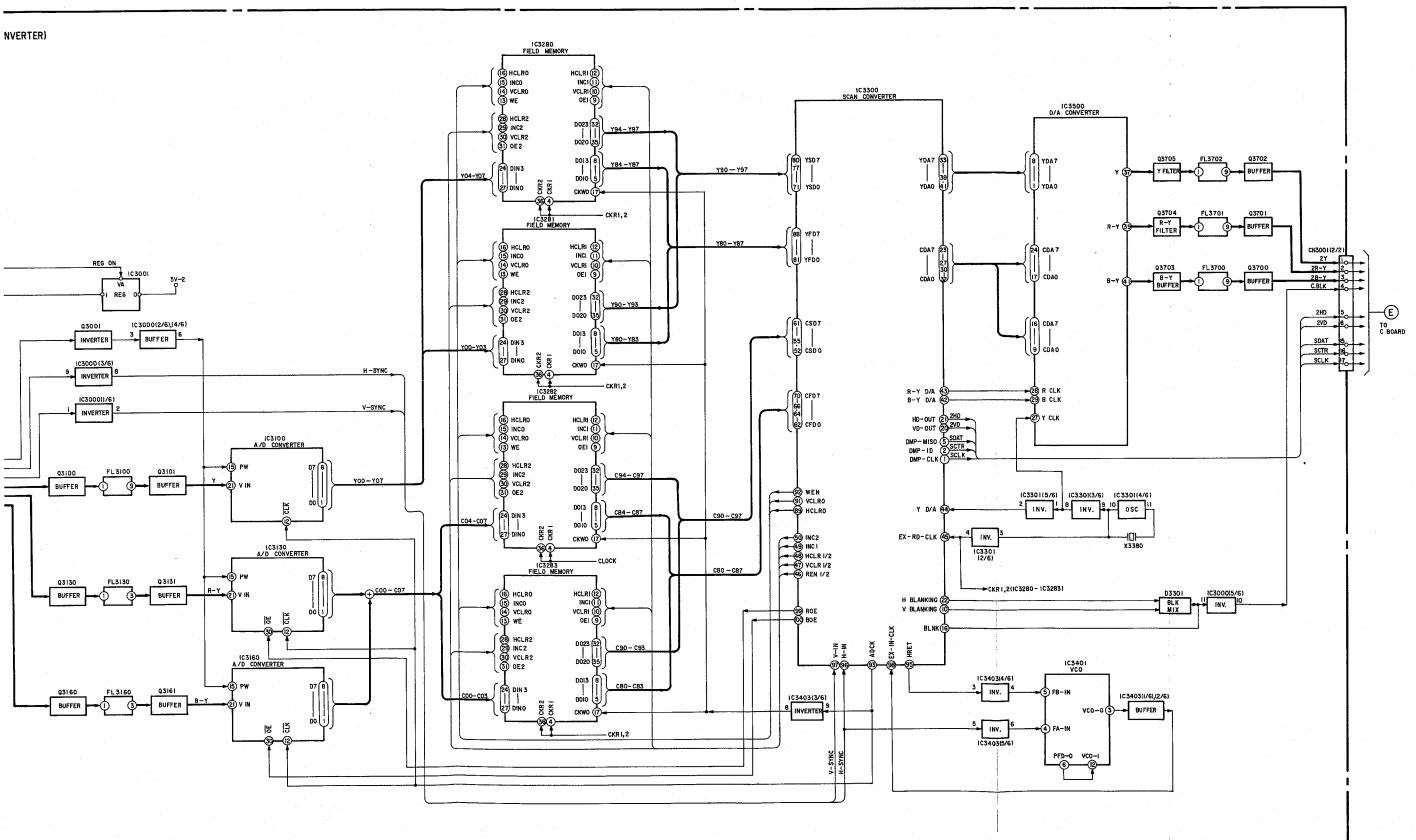
SECTION 4
DIAGRAMS

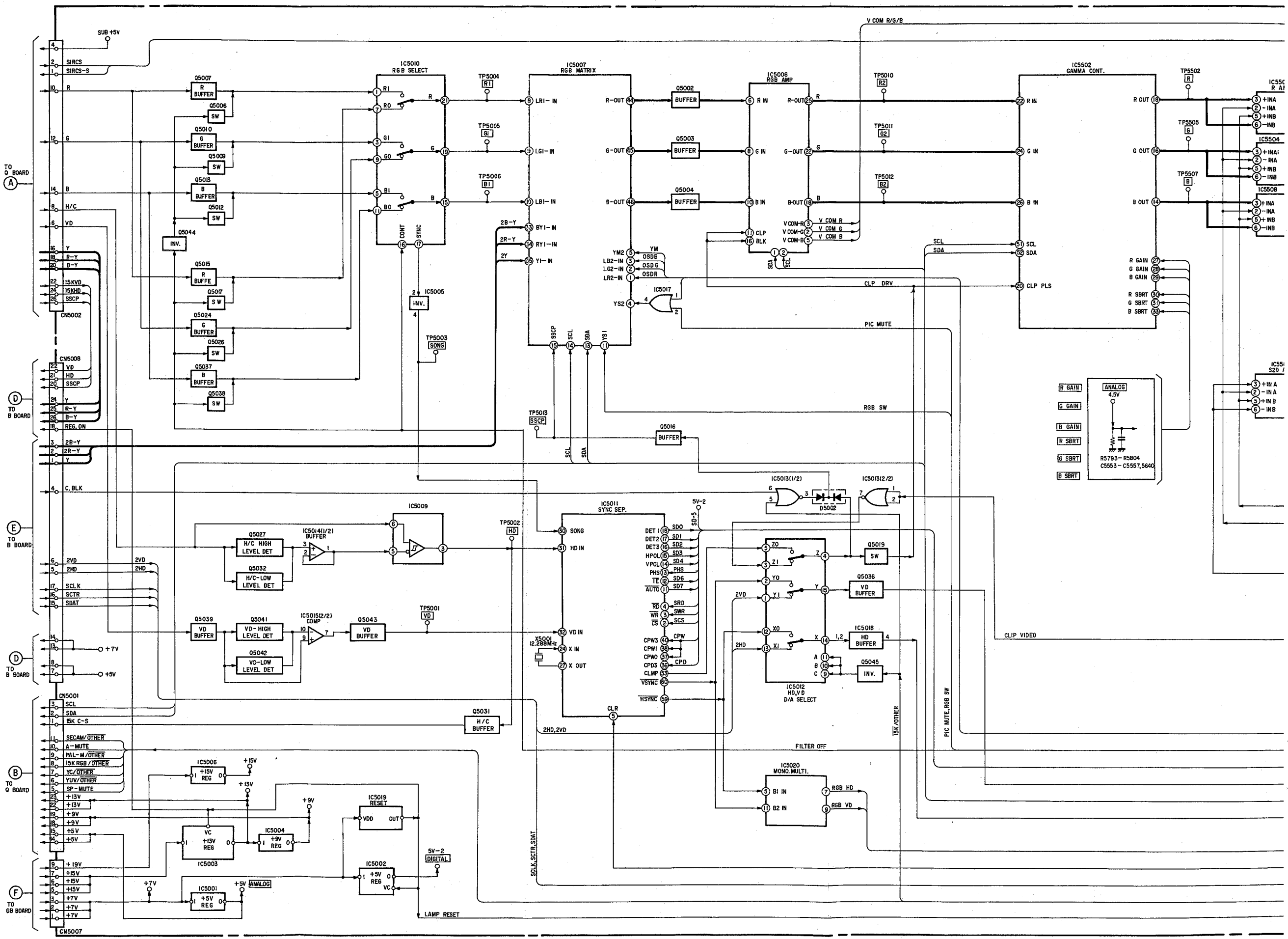
4-1. BLOCK DIAGRAMS

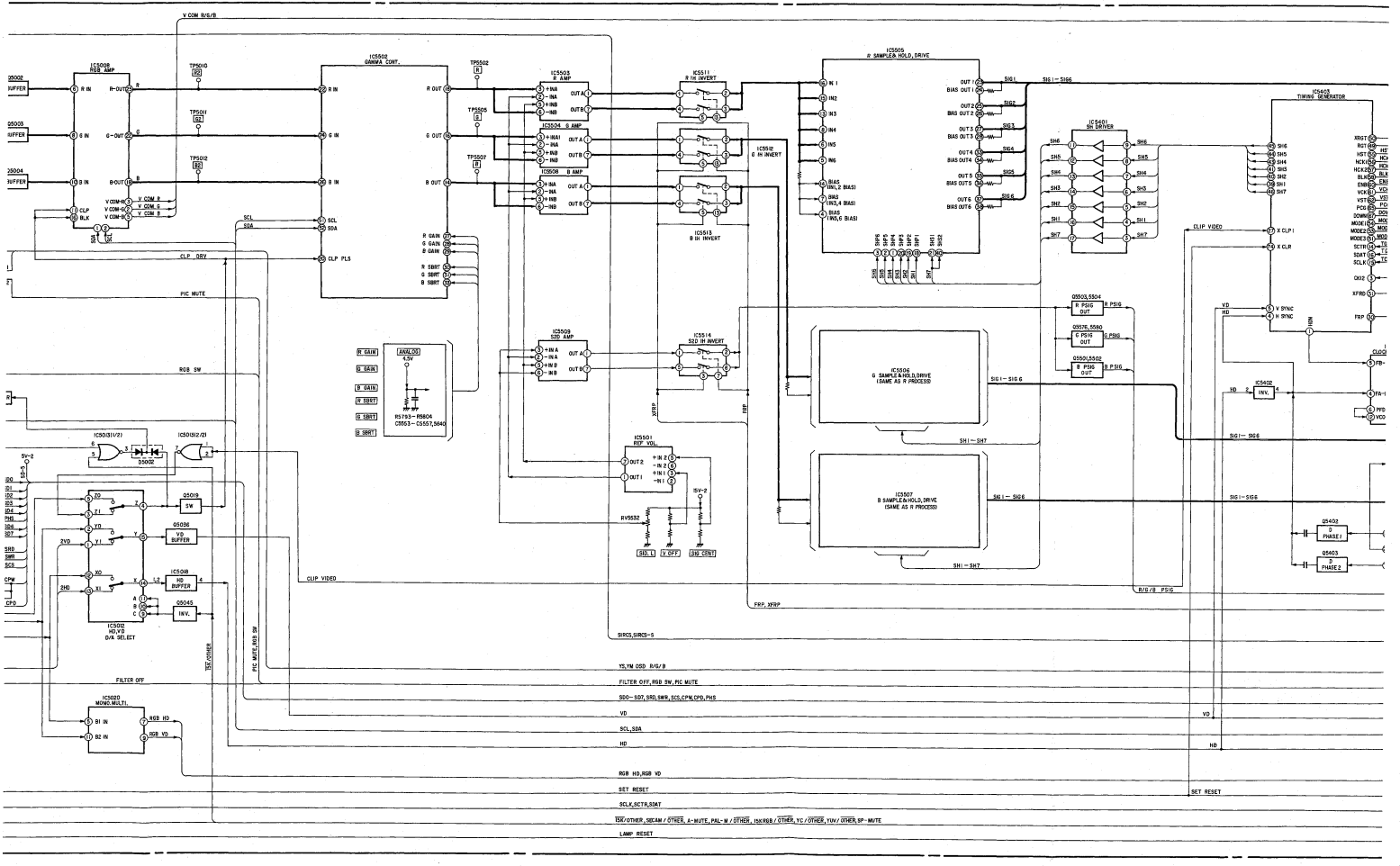


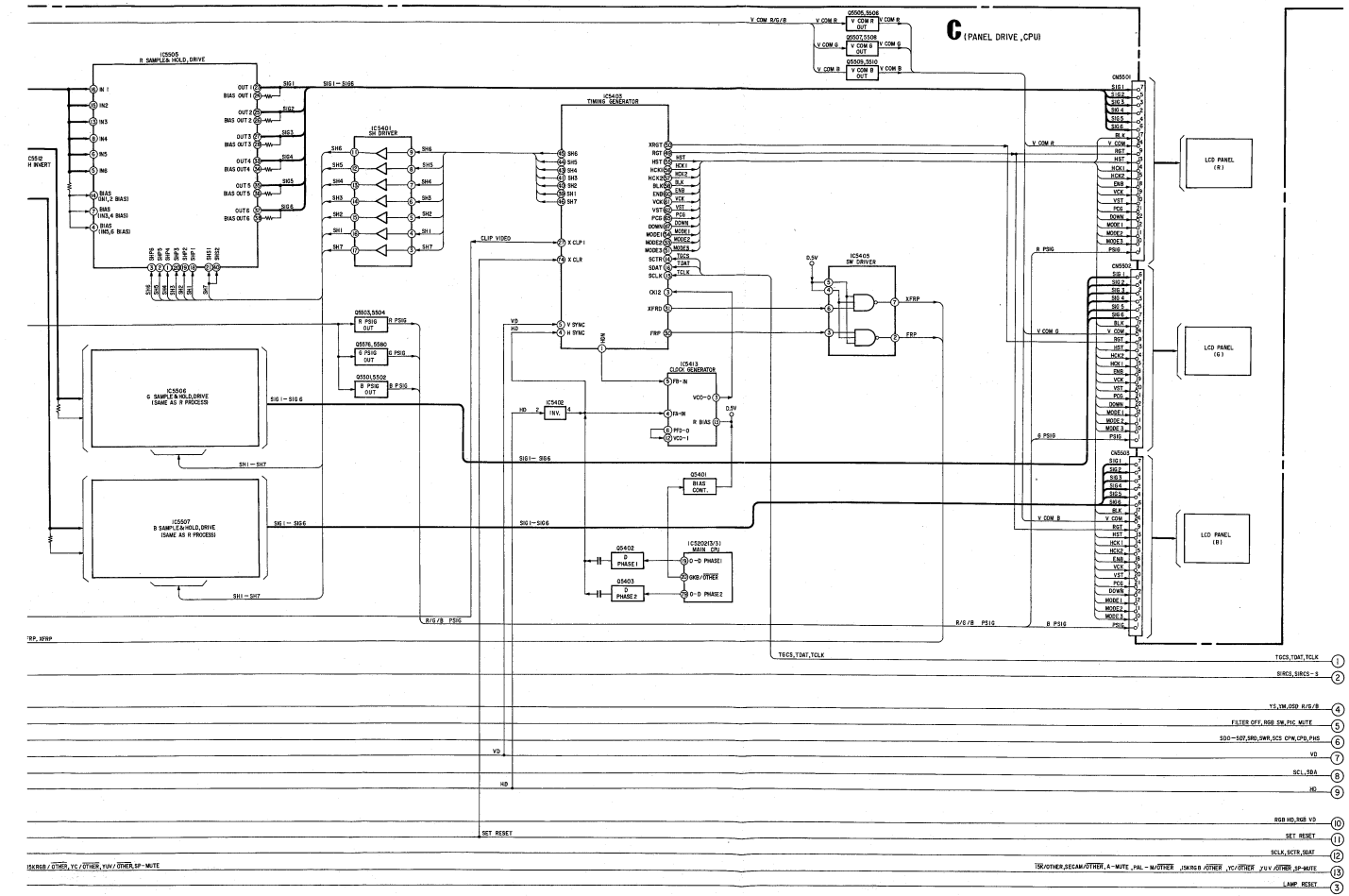

Q1306 AMP
Q1305 BUFFER
Q1304 AMP
Q1303 BUFFER
Q1302 AMP
Q1301 BUFFER
IC1301 YUV SW
Q2506,2514 EQ.
Q2515 BUFFER
Q2508 AMP
Q2510 BUFFER
Q1309 BUFFER
Q1308 BUFFER
Q1307 BUFFER
CN3004
Y-OUT
U-OUT
V-OUT
TO C BOARD
Q2504 BUFFER
Q2509 BUFFER
IC2504 SELECTOR
IC2501 SELECTOR
X2503 4.433618MHz
X2502 3.579545MHz
X2501 3.57561MHz (PAL-M)
Q2516 TRAP SW
Q2505 SW
Q2507 SW
Q2503 SW
CN3003
IC2303 DIGITAL COMB FILTER
Q2310 BUFFER
Q2312 CV BUFFER
Q2306 BUFFER
FL2301
Q2302 BUFFER
Q2311 CLAMP
Q2301
Q2308 SHIFT
Q2317 BUFFER
IC2302 4FSC CLOCK
CN1201
AUDIO +8
TO DC BOARD

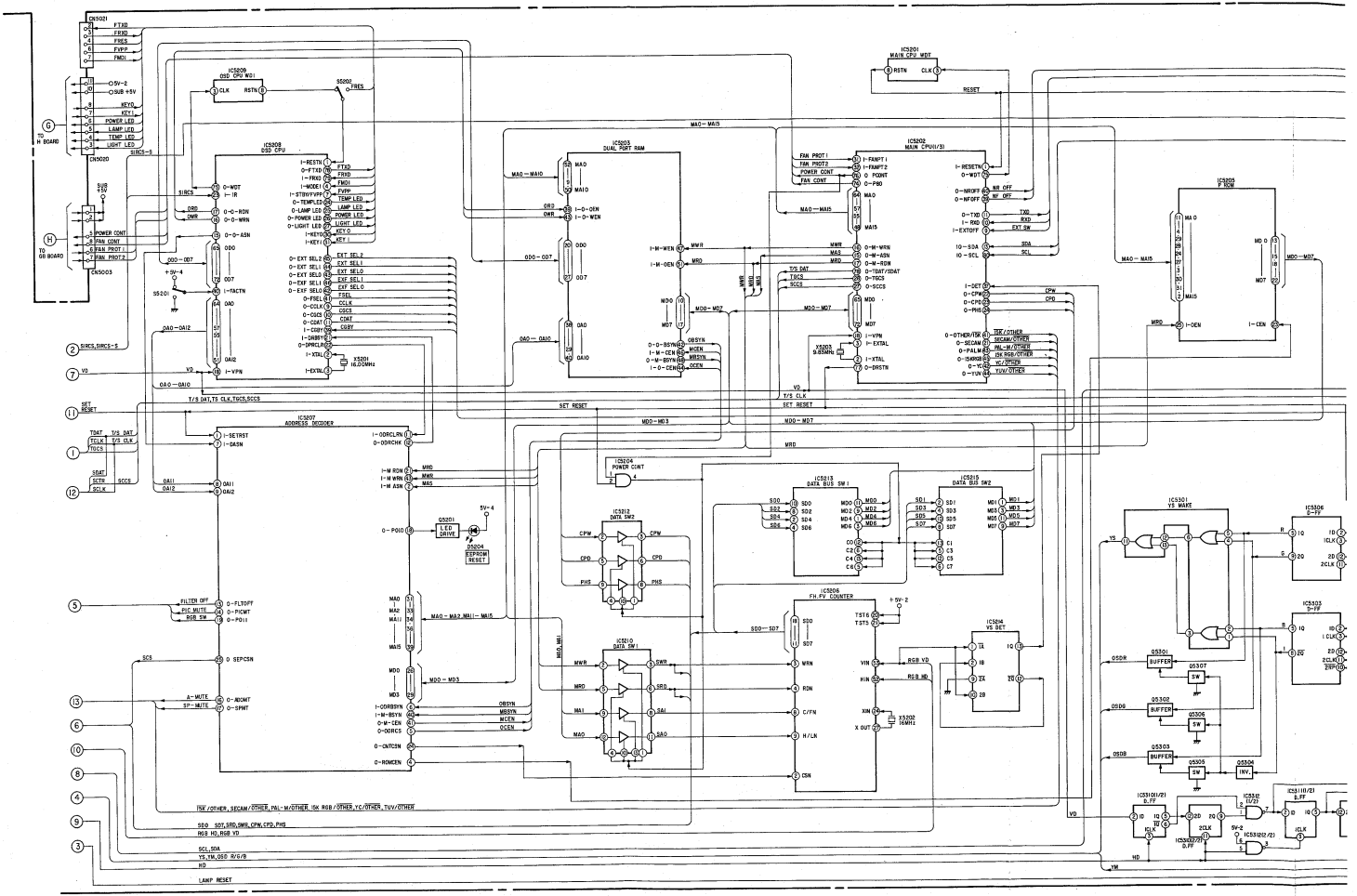

B (SCAN CONVERTER)
IC3001
REG
REG ON
5V-2
Q3001 INVERTER
IC3000(2/6)
BUFFER
IC3000(3/5) INVERTER
IC3000(1/6) INVERTER
H-SYNC
V-SYNC
CN3004(V2)
+5V
+7V
REG.ON
SSCP
HD
VD
R-Y
B-Y
TO C BOARD
Q3100 BUFFER
FL3100
Q3101 BUFFER
IC3100 A/D CONVERTER
Y00-Y07
Q3130 BUFFER
FL3130
Q3131 BUFFER
IC3130 A/D CONVERTER
C00-C07
Q3160 BUFFER
FL3160
Q3161 BUFFER
IC3160 A/D CONVERTER
D00-D07
IC3280 FIELD MEMORY
IC3281 FIELD MEMORY
IC3282 FIELD MEMORY
IC3283 FIELD MEMORY
CKR1
CLOCK

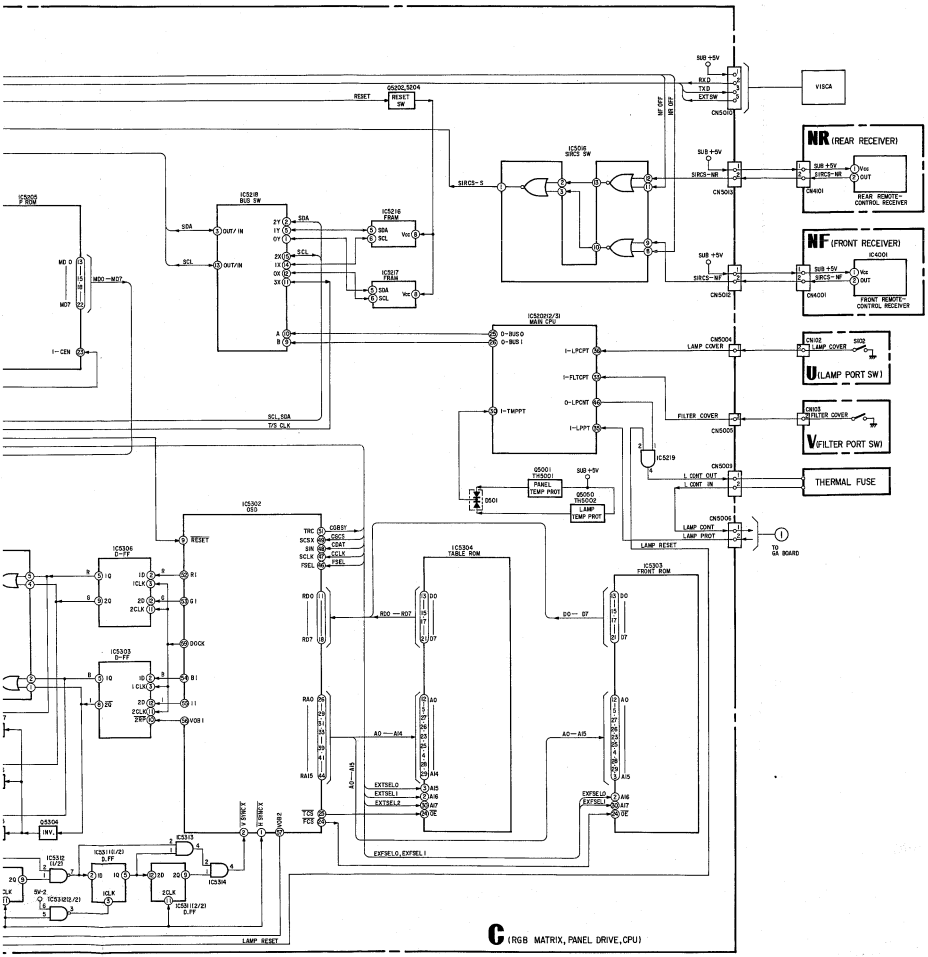

NVERTER)
IC3280 FIELD MEMORY
IC3281 FIELD MEMORY
IC3282 FIELD MEMORY
IC3283 FIELD MEMORY
IC3300 SCAN CONVERTER
IC3500 D/A CONVERTER
IC3100 A/D CONVERTER
IC3130 A/D CONVERTER
IC3160 A/D CONVERTER
IC3001 REG
Q3001 INVERTER
IC3000(2/6),(4/6) BUFFER
IC3000(3/6) INVERTER
IC3000(1/6) INVERTER
Q3100 BUFFER
FL3100
Q3101 BUFFER
Q3130 BUFFER
FL3130
Q3131 BUFFER
Q3160 BUFFER
FL3160
Q3161 BUFFER
Q3705 Y FILTER
FL3702
Q3702 BUFFER
Q3704 R-Y FILTER
FL3701
Q3701 BUFFER
Q3703 B-Y BUFFER
FL3700
Q3700 BUFFER
IC3301(5/6) INV.
IC3301(3/6) INV.
IC3301(4/6) OSC
X3380
IC3301(2/6) INV.
D3301 BLK MIX
IC3000(5/6) INV.
IC3401 VCO
IC3403(4/6) INV.
IC3403(5/6) INV.
IC3403(1/6) INVERTER
IC3403(1/6),(2/6) BUFFER
TO C BOARD
RES ON
5V-2
H-SYNC
V-SYNC
CLOCK
CKR1,2
Y00 – Y07
C00 – C07
Y80 – Y87
C80 – C87
Y84 – Y87
Y80 – Y83
C94 – C97
C90 – C97
C84 – C87
C90 – C95
C80 – C85
Y04 – Y07
C04 – C07
C00 – C05
CK3001(2/2)
2Y
2R-Y
2B-Y
2BLK
2HD
2VD
SDAT
SCTR
SCLK

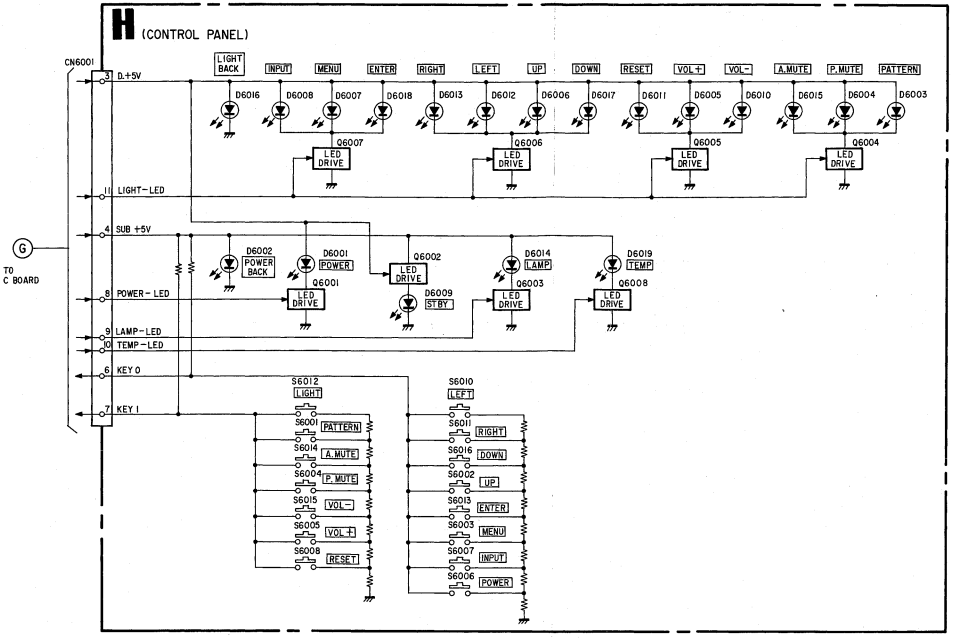

SUB +5V
SIRCS
SIRCS-S
TO Q BOARD
TO B BOARD
TO GB BOARD
CN5002
CN5008
CN5001
CN5007
R
G
B
H/C
VD
Y
R-Y
B-Y
15KVD
15KHD
SSCP
HD
REG. ON
2B-Y
2R-Y
C. BLK
2VD
2HD
SCLK
SCTR
SDAT
+7V
+5V
SCL
SDA
15K C-S
SECAM/OTHER
A-MUTE
PAL-M/OTHER
15K RGB/OTHER
YC/OTHER
YUV/OTHER
SP-MUTE
+13V
+9V
+19V
+15V
Q5007 R BUFFER
Q5006 SW
Q5010 G BUFFER
Q5009 SW
Q5013 B BUFFER
Q5012 SW
Q5044 INV.
Q5015 R BUFFE
Q5017 SW
Q5024 G BUFFER
Q5026 SW
Q5037 B BUFFER
Q5038 SW
IC5010 RGB SELECT
R1
R0
G1
G0
B1
B0
CONT
SYNC
IC5005 INV.
TP5003 SONG
TP5004 R1
TP5005 G1
TP5006 B1
IC5007 RGB MATRIX
LR1-IN
LG1-IN
LB1-IN
BY1-IN
RY1-IN
Y1-IN
R-OUT
G-OUT
B-OUT
YM2
LB2-IN
LG2-IN
LR2-IN
YS2
YM
OSDB
OSDG
OSDR
IC5017
YS1
TP5013 SSCP
Q5016 BUFFER
Q5002 BUFFER
Q5003 BUFFER
Q5004 BUFFER
IC5008 RGB AMP
R IN
G IN
B IN
CLP
BLK
V COM-R
V COM-G
V COM-B
V COM R
V COM G
V COM B
V COM R/G/B
TP5010 R2
TP5011 G2
TP5012 B2
IC5502 GAMMA CONT.
CLP PLS
CLP DRV
PIC MUTE
RGB SW
R OUT
G OUT
B OUT
R GAIN
G GAIN
B GAIN
R SBRT
G SBRT
B SBRT
TP5502 R
TP5505 G
TP5507 B
IC5504
IC5508
+INA
-INA
+INB
-INB
ANALOG 4.5V
R5793-R5804
C5553-C5557,5640
Q5027 H/C HIGH LEVEL DET
Q5032 H/C-LOW LEVEL DET
IC5014(1/2) BUFFER
IC5009
TP5002 HD
Q5039 VD BUFFER
Q5041 VD-HIGH LEVEL DET
Q5042 VD-LOW LEVEL DET
IC5015(2/2) COMP
Q5043 VD BUFFER
TP5001 VD
Q5031 H/C BUFFER
IC5011 SYNC SEP.
SONG
HD IN
VD IN
X5001 12.288MHz
X IN
X OUT
CLR
DET1
DET2
DET3
HPOL
VPOL
PHS
TE
AUTO
RD
WR
CS
CPW3
CPW1
CPW0
CPD3
CLMP
VSYNC
HSYNC
SD0
SD1
SD2
SD3
SD4
SD6
SD7
SRD
SWR
SCS
CPW
CPD
5V-2
SD-5
IC5013(1/2)
D5002
IC5013(2/2)
IC5012 HD,VD D/A SELECT
Q5019 SW
Q5036 VD BUFFER
IC5018 HD BUFFER
Q5045 INV.
CLIP VIDEO
15K/OTHER
PIC MUTE,RGB SW
FILTER OFF
2HD,2VD
IC5020 MONO. MULTI.
B1 IN
B2 IN
RGB HD
RGB VD
SCLK,SCTR,SDAT
IC5006 +15V REG
IC5003 VC +13V REG
IC5004 +9V REG
IC5019 RESET
VDD
OUT
IC5002 +5V REG
5V-2 DIGITAL
LAMP RESET
IC5001 +5V REG
+5V ANALOG

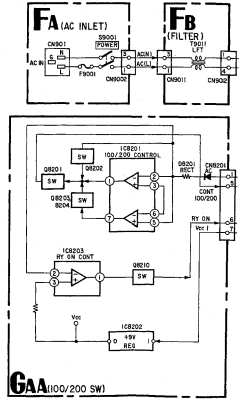

V COM R/G/B
IC5008 RGB AMP
IC5502 GAMMA CONT.
IC5503 R AMP
IC5504 G AMP
IC5506 B AMP
IC5511 R IN INVERT
IC5512 G IN INVERT
IC5513 B IN INVERT
IC5505 R SAMPLE& HOLD DRIVE
IC5506 G SAMPLE & HOLD DRIVE
IC5507 B SAMPLE & HOLD DRIVE
IC5509 S2D AMP
IC5514 S2D IN INVERT
IC5501 REF. VOL
IC5401 SH DRIVER
IC5403 TIMING GENERATOR
IC5402 INV.
IC5019 SW
IC5036 YD BUFFER
IC5018 RD BUFFER
IC5045 INV.
IC5020 MONO.MULTI.
IC5012 HD,VD D/A SELECT
D5002
Q5503,5504 R PSIG OUT
Q5576,5580 G PSIG OUT
Q5501,5502 B PSIG OUT
Q5402 PHASE 1
Q5403 PHASE 2
CLIP VIDEO
CLP DRV
PIC MUTE
RGB SW
FILTER OFF
SCL
SDA
SIG1 – SIG6
SIG1 – SIG G
SIG1 – SIG B
SH1 – SH7
FRP, XFRP
SIRCS, SIRCS-S
YS, YM OSD R/G/B
FILTER OFF, RGB SW, PIC MUTE
SDO – SD7, SSD, SWR, SCS, CPW, CPD, PHS
VD
SCL, SDA
HD
RGB HD, RGB VD
SET RESET
SCLK, SCTR, SDAT
15K/OTHER, SECAM / OTHER, A-MUTE, PAL-M / OTHER, 15KRGB / OTHER, YC / OTHER, YUV / OTHER, SP-MUTE
LAMP RESET

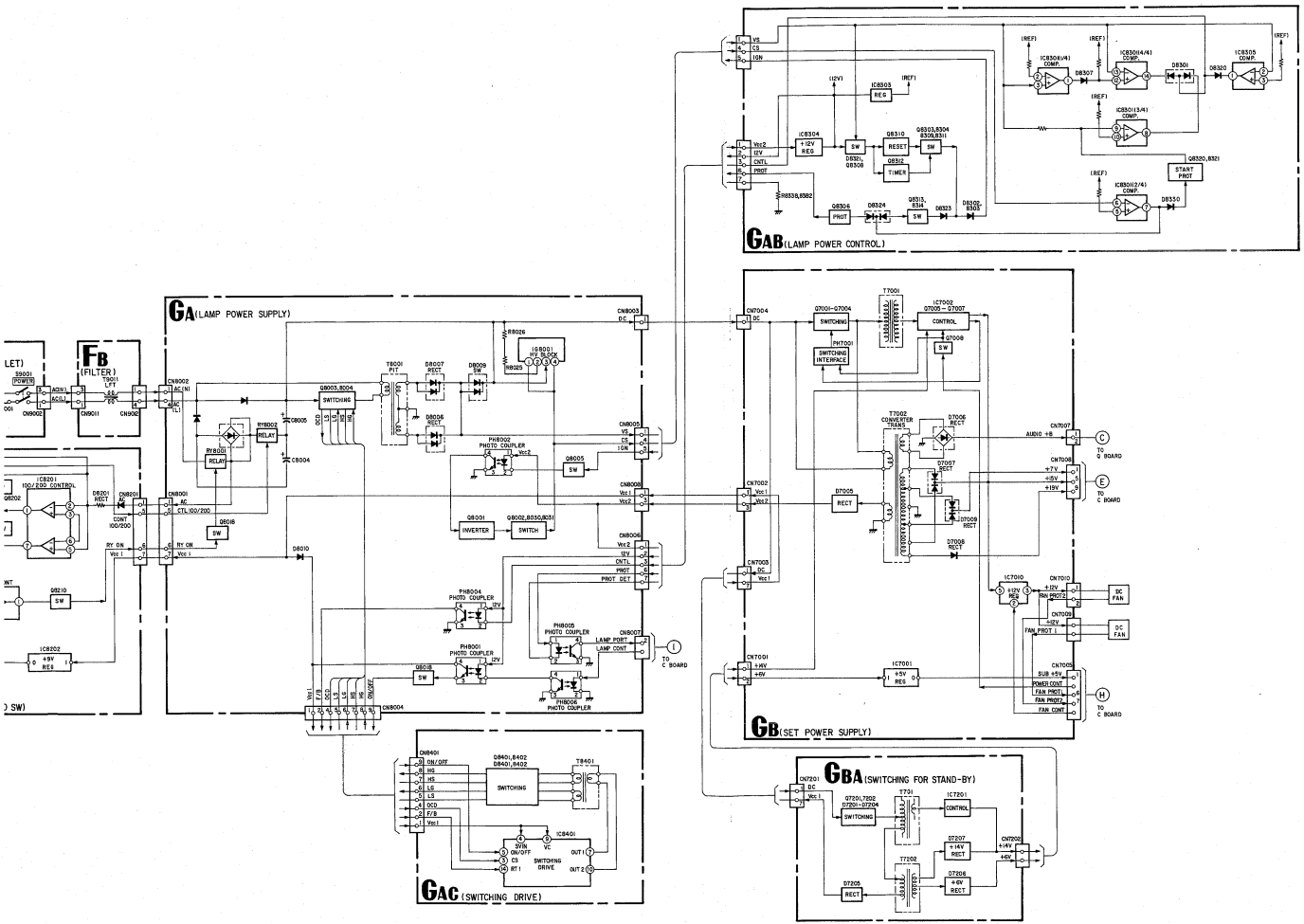

C (PANEL DRIVE ,CPU)
IC5505
R SAMPLE& HOLD, DRIVE
IC5506
G SAMPLE & HOLD, DRIVE
(SAME AS R PROCESS)
IC5507
B SAMPLE&HOLD, DRIVE
(SAME AS R PROCESS)
IC5401
SW DRIVER
IC5405
TIMING GENERATOR
IC5403
CLOCK GENERATOR
IC5402
INV.
IC5405
SW DRIVER
Q5401
BIAS CONT.
Q5402
D PHASE1
Q5403
D PHASE2
IC5202(3/3)
MAIN CPU
Q5505,5506
Q5507,5508
Q5509,5510
Q5503,5504
Q5576, 5580
Q5501,5502
CN5501
CN5502
CN5503
LCD PANEL (R)
LCD PANEL (G)
LCD PANEL (B)
V COM R/G/B
CLIP VIDEO
SET RESET
TGCS,TDAT,TCLK
SIRCS,SIRCS-S
Y'S,YM,OSD R/G/B
FILTER OFF, RGB SW,PIC MUTE
SDO-SDT,SRD,SWR,SCS CPW,CPD,PHS
VD
SCL,SDA
HD
RGB HD,RGB VD
SET RESET
SCLK,SCTR,SDAT
LAMP RESET
TSR/OTHER,SECAM/OTHER, A-MUTE ,PAL-M/OTHER ,I5K/RGB /OTHER ,YC/OTHER ,YUV /OTHER ,SP-MUTE
I5K/RGB / OTHER, YC / OTHER, YUV / OTHER, SP-MUTE
R/G/B PSIG
R PSIG
G PSIG
B PSIG
V COM R
V COM G
V COM B
XFRP
FRP
0.5V



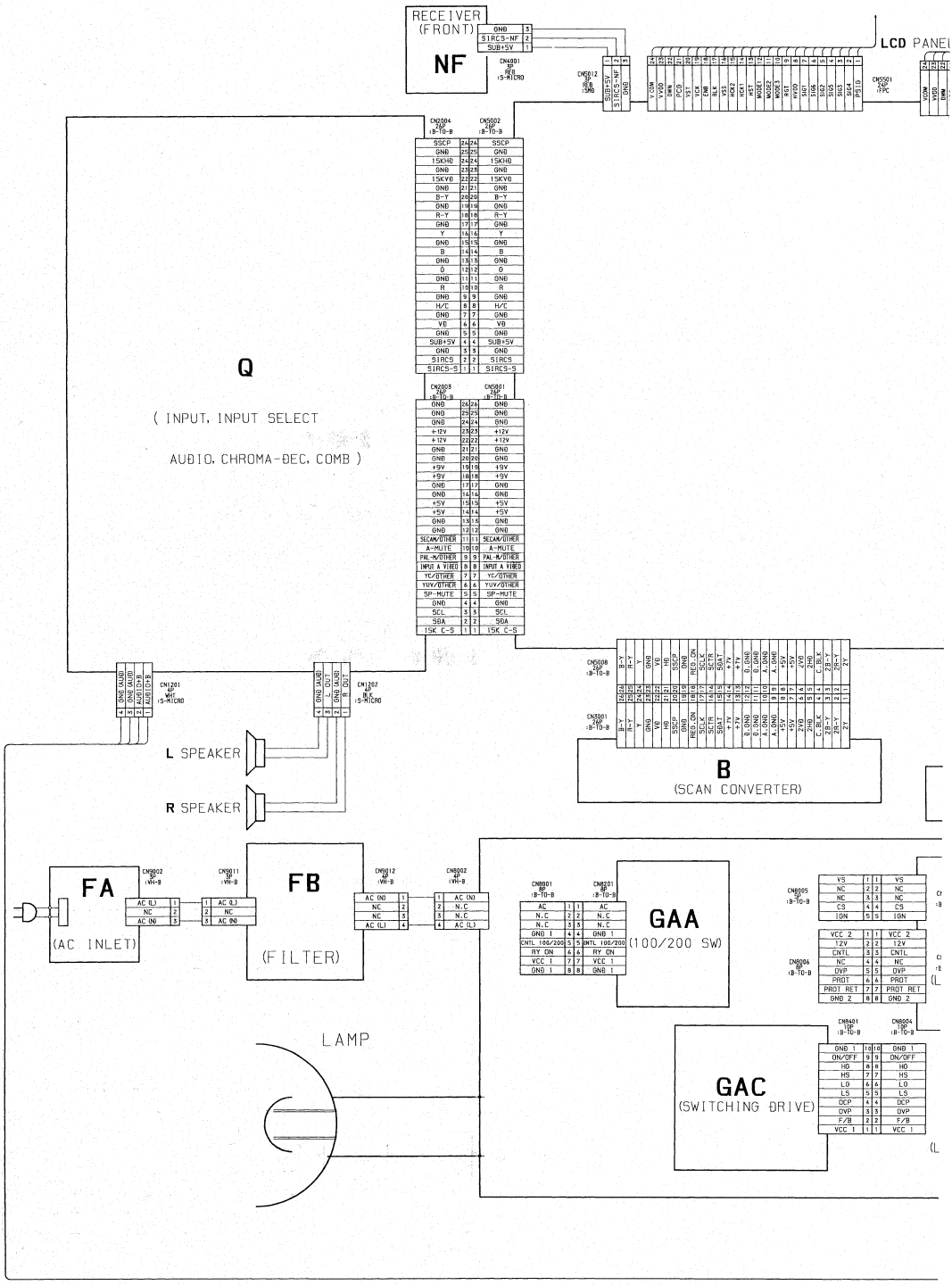

NR (REAR RECEIVER)
NF (FRONT RECEIVER)
U (LAMP PORT SW)
V (FILTER PORT SW)
THERMAL FUSE
REAR REMOTE-CONTROL RECEIVER
FRONT REMOTE-CONTROL RECEIVER
VISCA
TO GA BOARD
IC5302 OSD
IC5304 TABLE ROM
IC5303 FRONT ROM
IC5306 D-FF
IC5307 D-FF
IC5309 SIRCS SW
IC5308 BUS SW
IC5216 FRAM
IC5217 FRAM
IC5205 IF ROM
IC5312/3/1 MAIN CPU
IC5219
IC5313
IC5310 (1/2)
IC5311 (1/2)
IC5312 (1/2)
IC5313 (1/2)
IC5314
Q5304
Q5305
Q5306
Q5307
Q5308
Q5309
Q5310
Q5311
Q5312
Q5313
Q5314
Q5315
Q5316
Q5317
Q5318
Q5319
Q5320
Q5321
Q5322
Q5323
Q5324
Q5325
Q5326
Q5327
Q5328
Q5329
Q5330
Q5331
Q5332
Q5333
Q5334
Q5335
Q5336
Q5337
Q5338
Q5339
Q5340
Q5341
Q5342
Q5343

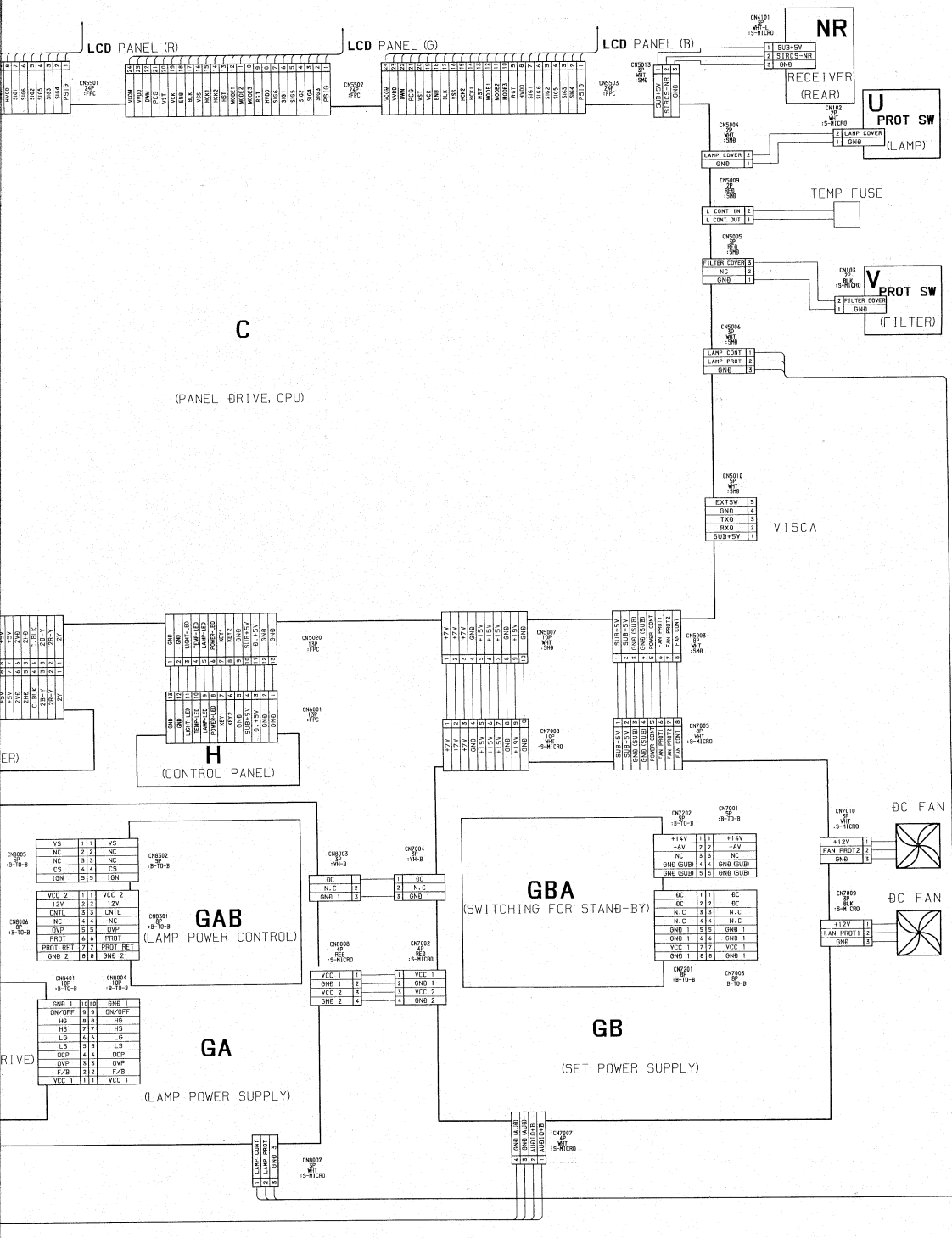

H (CONTROL PANEL)
CN6001
3 D+5V
11 LIGHT-LED
4 SUB +5V
G
TO C BOARD
8 POWER-LED
9 LAMP-LED
10 TEMP-LED
6 KEY O
7 KEY I
LIGHT BACK
INPUT
MENU
ENTER
RIGHT
LEFT
UP
DOWN
RESET
VOL+
VOL-
A.MUTE
P.MUTE
PATTERN
D6016
D6008
D6007
D6018
D6013
D6012
D6006
D6017
D6011
D6005
D6010
D6015
D6004
D6003
Q6007
Q6006
Q6005
Q6004
LED DRIVE
D6002 POWER BACK
D6001 POWER
Q6001
Q6002
D6009 STBY
D6014 LAMP
Q6003
D6019 TEMP
Q6008
S6012 LIGHT
S6001 PATTERN
S6014 A.MUTE
S6004 P.MUTE
S6015 VOL-
S6005 VOL+
S6008 RESET
S6010 LEFT
S6011 RIGHT
S6016 DOWN
S6002 UP
S6013 ENTER
S6003 MENU
S6007 INPUT
S6006 POWER

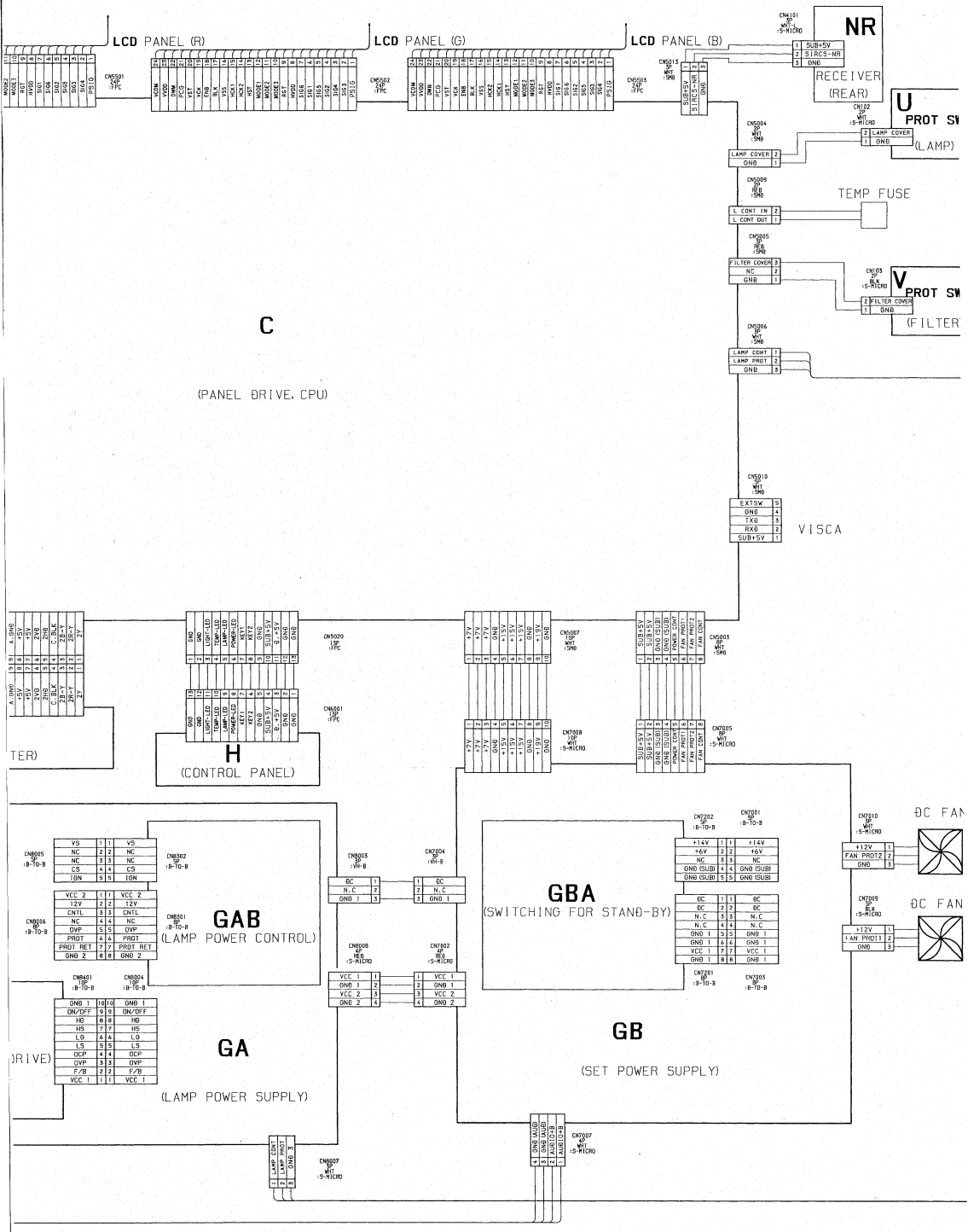

FA (AC INLET)
FB (FILTER)
CN901
AC IN
S9001 POWER
F9001
CN9002
CN9001
T9011 LFT
CN902
IC8201 100/200 CONTROL
Q8201
Q8202
SW
Q8203 Q8204
CN8201
CONT 100/200
RY ON
Vcc
IC8203 RY ON CONT
Q8210
IC8202 +9V REG.
GAA (100/200 SW)

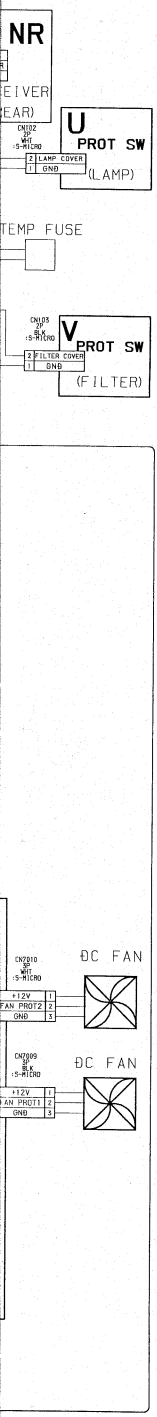

GA (LAMP POWER SUPPLY)
FB (FILTER)
GAB (LAMP POWER CONTROL)
GB (SET POWER SUPPLY)
GBA (SWITCHING FOR STAND-BY)
GAC (SWITCHING DRIVE)
TO C BOARD
TO Q BOARD
DC FAN

4-2. FRAME SCHEMATIC DIAGRAM

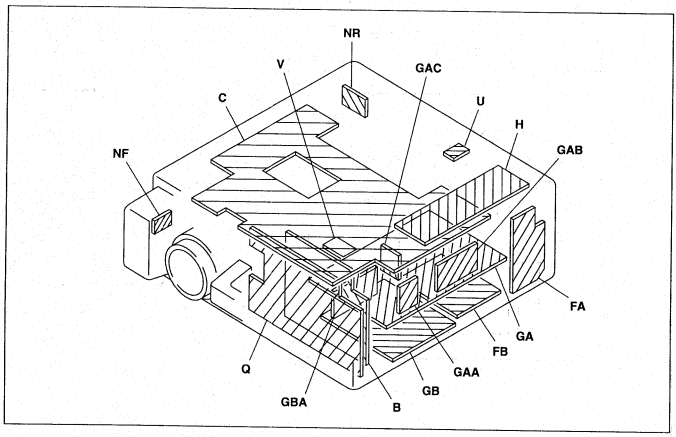



LCD PANEL (R)
LCD PANEL (G)
LCD PANEL (B)
CN5501 24P :FPC
CN5502 24P :FPC
CN5503 24P :FPC
CN4101 5P WHT :S-MICRO
NR
RECEIVER (REAR)
SUB+5V
SIRCS-NR
GND
U
PROT SW
(LAMP)
CN5004 2P WHT :SMD
CN102 2P WHT :S-MICRO
LAMP COVER
GND
TEMP FUSE
CN5009 2P RED :SMD
L CONT IN
L CONT OUT
CN5005 2P BLK :SMD
V
PROT SW
(FILTER)
CN103 2P BLK :S-MICRO
FILTER COVER
CN5006 3P WHT :SMD
LAMP CONT
LAMP PROT
C
(PANEL DRIVE, CPU)
CN5010 5P WHT :SMD
EXTSW
TXD
RXD
VISCA
CN5020 15P :FPC
CN6501 15P :FPC
H
(CONTROL PANEL)
CN5007 10P WHT :SMD
CN5003 7P WHT :SMD
CN7008 10P WHT :S-MICRO
CN7005 8P WHT :S-MICRO
CN8005 8P :B-TO-B
CN8302 8P :B-TO-B
CN8301 8P :B-TO-B
GAB
(LAMP POWER CONTROL)
CN8006 8P :B-TO-B
CN8003 6P :B-TO-B
CN7004 6P :VH-B
CN8008 4P RED :S-MICRO
CN7002 4P RED :S-MICRO
GBA
(SWITCHING FOR STAND-BY)
CN7202 8P :B-TO-B
CN7001 8P :B-TO-B
CN7201 8P :B-TO-B
CN7003 8P :B-TO-B
CN2010 3P WHT :S-MICRO
DC FAN
CN7009 3P BLK :S-MICRO
DC FAN
CN8401 10P :B-TO-B
CN8004 10P :B-TO-B
GA
(LAMP POWER SUPPLY)
GB
(SET POWER SUPPLY)
CN7007 4P WHT :S-MICRO
CN8007 3P WHT :S-MICRO


LCD PANEL (R)
LCD PANEL (G)
LCD PANEL (B)
NR
RECEIVER
(REAR)
U
PROT SW
(LAMP)
TEMP FUSE
V
PROT SW
(FILTER
C
(PANEL DRIVE, CPU)
VISCA
H
(CONTROL PANEL)
GAB
(LAMP POWER CONTROL)
GA
(LAMP POWER SUPPLY)
GBA
(SWITCHING FOR STAND-BY)
GB
(SET POWER SUPPLY)
DC FAN
DC FAN



4-3. CIRCUIT BOARDS LOCATION



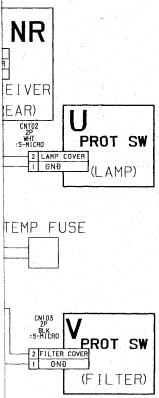
4-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

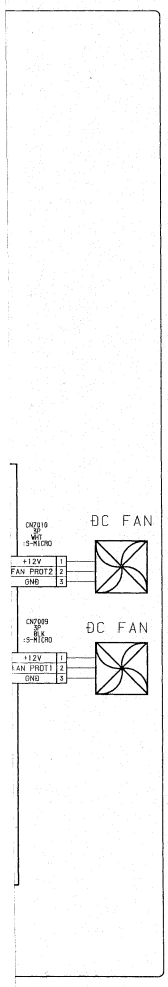
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
- Capacitors without voltage indication are all 50V.
- All resistors are in ohms, 1/4W in resistance, 1/10W in chip resistance.
  kΩ = 1000Ω, MΩ = 1000kΩ
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- # marked in these schematic diagrams signifies not mounted.
- Voltage and waveform value is the reference value between it and the earth, when NTSC 3.58 color bar signal is received from color bar generator (digital multi-rneter used : 10M ohms/V DC).
- Unit of voltage values is V (volt).
- * : Measurement disabled.
- ——— : B + line.
- — — — : B – line.
  (Actual measured value may be different).
- Circled numbers are waveform references.
- : Signal Path.

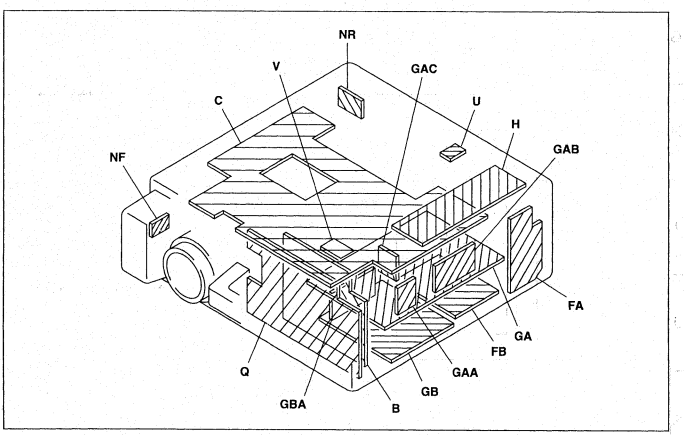
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE





4-3. CIRCUIT BOARDS LOCATION



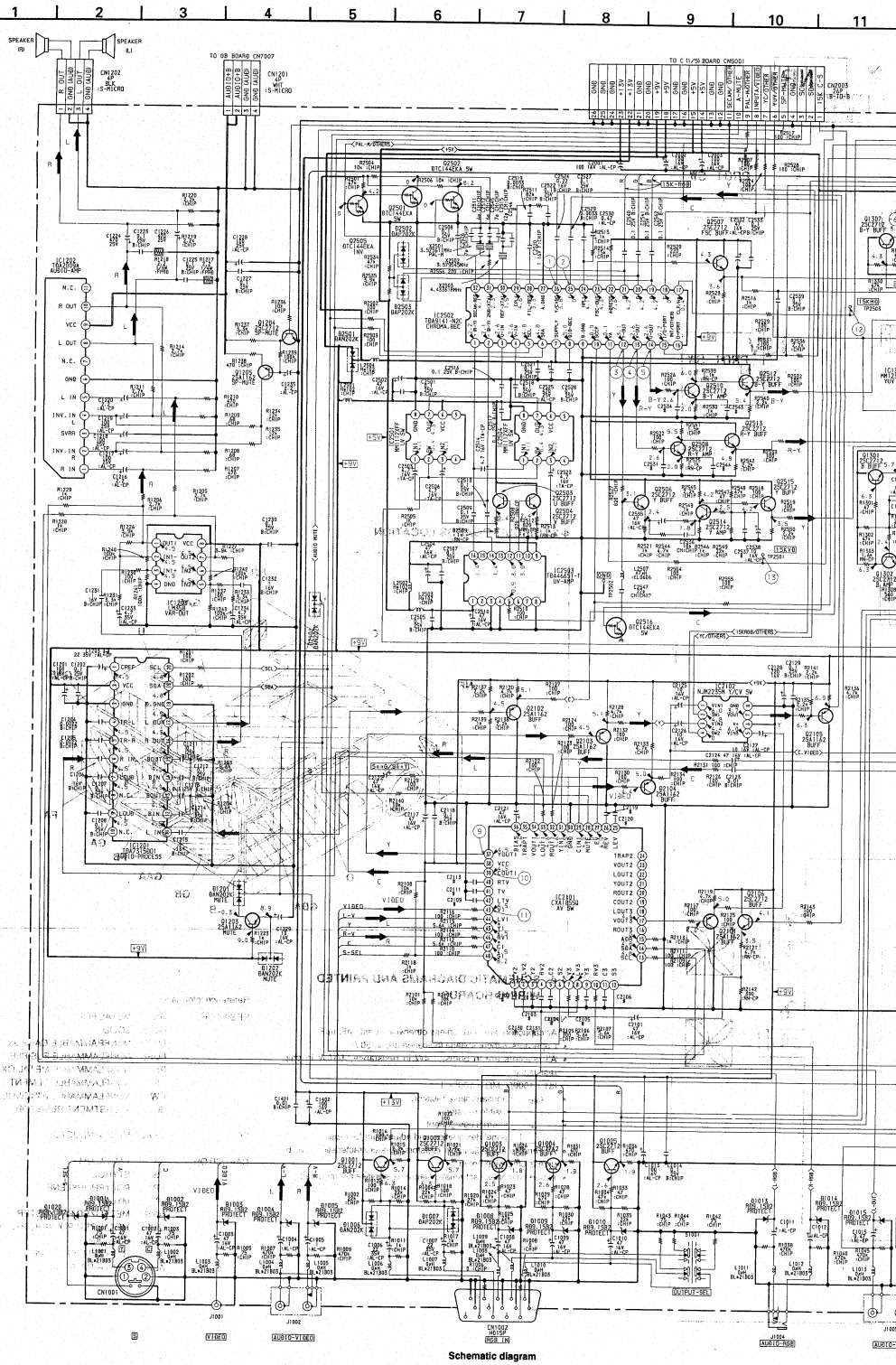
4-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
- Capacitors without voltage indication are all 50V.
- All resistors are in ohms, 1/4W in resistance, 1/10W in chip resistance.
  kΩ = 1000Ω, MΩ = 1000kΩ
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- # marked in these schematic diagrams signifies not mounted.
- Voltage and waveform value is the reference value between it and the earth, when NTSC 3.58 color bar signal is received from color bar generator (digital multi-meter used : 10M ohms/V DC).
- Unit of voltage values is V (volt).
- ＊ : Measurement disabled.
- ——— : B + line.
- — — — : B − line.
  (Actual measured value may be different).
- Circled numbers are waveform references.
- ➡ : Signal Path.

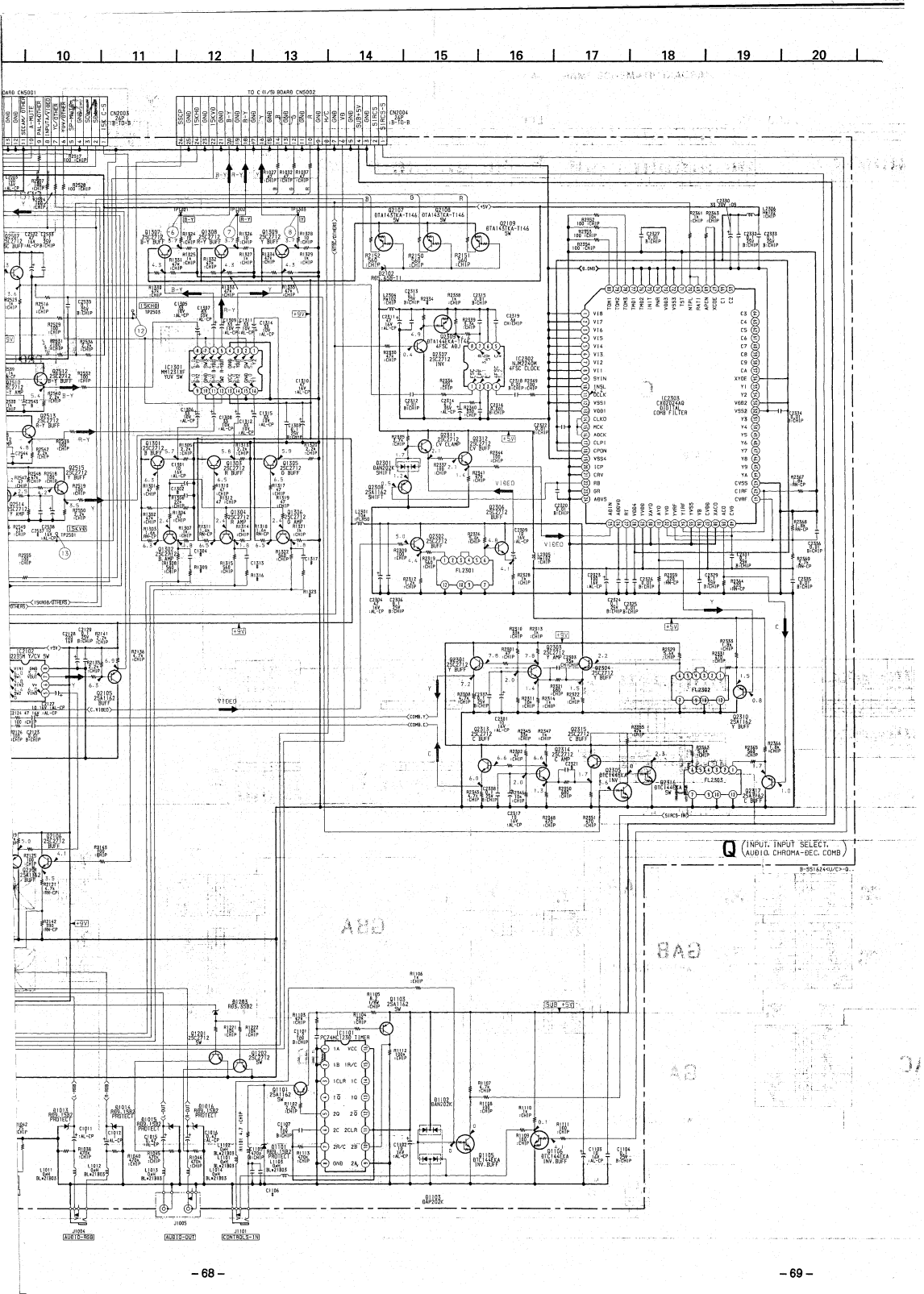
Reference information

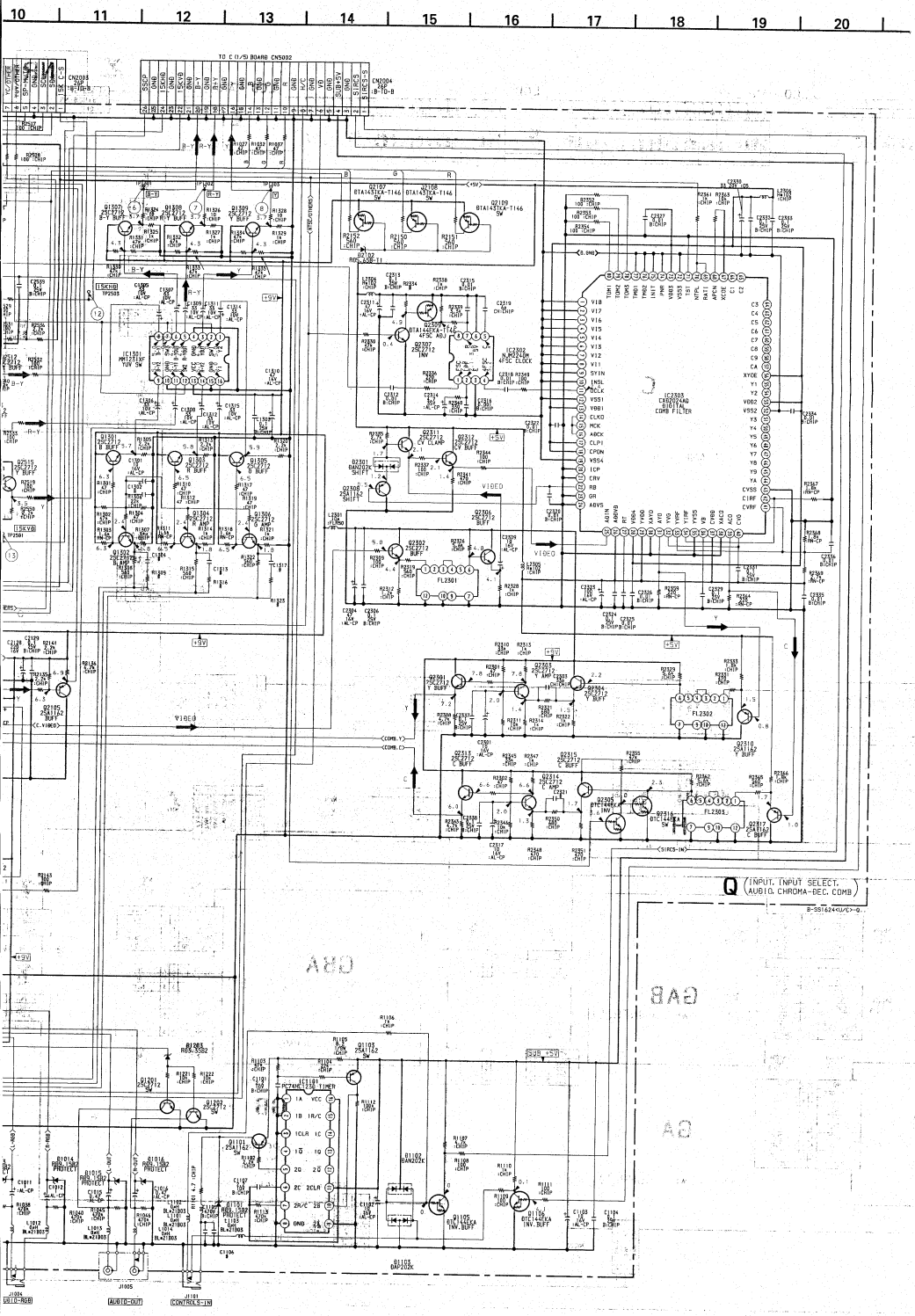
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

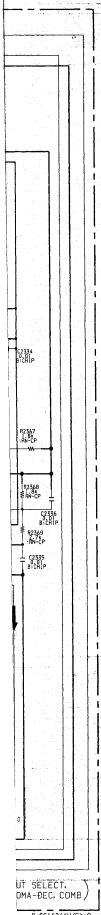


Schematic diagram

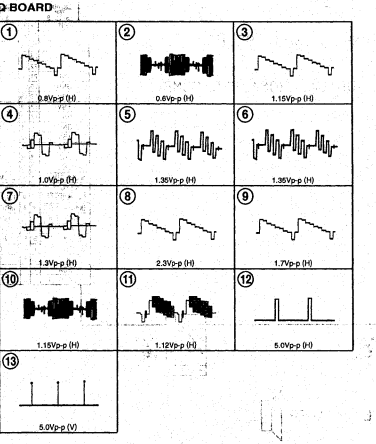
Q board ➡


10
11
12
13
14
15
16
17
18
19
20
Q (INPUT, INPUT SELECT, AUDIO, CHROMA-DEC, COMB)

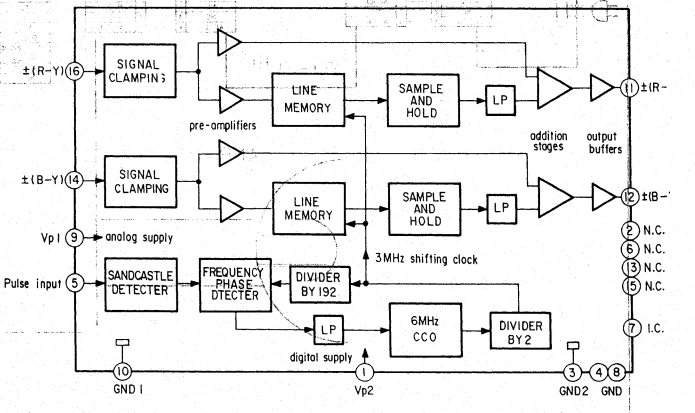

10
11
12
13
14
15
16
17
18
19
20
TO C (I/S) BOARD CN5002
CN2004
CN2005
Q (INPUT, INPUT SELECT, AUDIO, CHROMA-DEC, COMB)
B-SS1624-C(I/C)-Q
IC2303
CXD2074AQ
DIGITAL
COMB FILTER
FL2301
FL2302
IC2302
PLL02A24M
4FSC CLOCK
IC1201
PST5219F
TUV SW
IC1101
PST6415
TIMER
J1004
VIDEO-RGB
J1005
AUDIO-OUT
J1101
CONTROL S-IN



Q BOARD



Q BOARD IC2503 TDA4665T



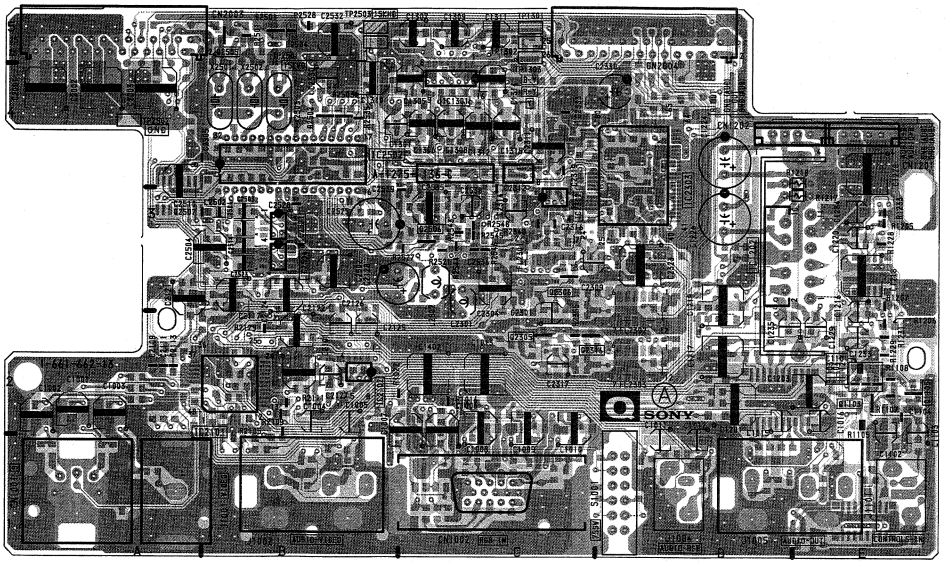
Q [INPUT, INPUT SELECT, AUDIO, CHROMA-DEC, COMB]

– Q BOARD –

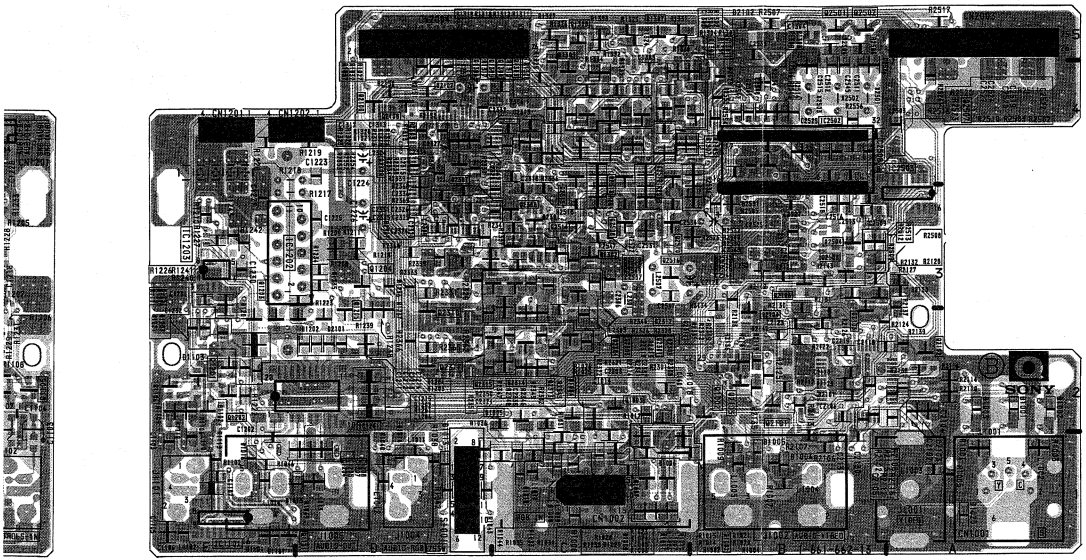
<A Side>

Q BOARD (A SIDE)

IC	
IC1202	D-3
IC1301	C-4
IC2101	B-2
IC2102	B-2
IC2302	C-3
IC2303	D-3
IC2501	B-3
IC2502	B-4
IC2504	B-3
TRANSISTOR	
Q1103	E-2
Q1105	E-2
Q2305	C-2
Q2306	C-3
Q2316	C-2
Q2505	B-5
Q2506	C-3
DIODE	
D2501	B-5
D2502	B-4
D2503	B-4



<B Side>



• : Pattern from the side which enables seeing.
• : Pattern of the rear side.

Q BOARD
(B SIDE)

IC	
IC1101	E-1
IC1201	D-2
IC1202	E-3
IC1203	E-3
IC2502	B-4
IC2503	A-3

TRANSISTOR	
Q1001	C-2
Q1002	B-2
Q1003	C-2
Q1004	C-2
Q1005	C-2
Q1101	E-1
Q1106	E-2
Q1201	E-2
Q1202	E-2
Q1203	E-2
Q1204	D-3
Q1205	D-2
Q1301	B-4
Q1302	C-4
Q1303	C-4
Q1304	C-4
Q1305	C-4
Q1306	C-4
Q1307	C-5
Q1308	C-5
Q1309	C-4
Q2101	B-2
Q2102	A-2
Q2103	B-2
Q2104	B-2
Q2105	B-2
Q2106	B-3
Q2107	D-4
Q2108	D-4
Q2109	D-4
Q2301	C-3
Q2302	C-3
Q2303	C-3
Q2304	C-3
Q2307	D-4
Q2308	C-3
Q2309	C-4
Q2310	D-3
Q2311	C-3
Q2312	C-3
Q2313	C-2
Q2314	C-2
Q2315	C-2
Q2317	D-2
Q2501	B-5
Q2502	B-5
Q2503	B-3
Q2504	B-3
Q2507	B-4
Q2508	C-3
Q2510	C-3
Q2512	C-4
Q2513	C-4
Q2514	C-3
Q2515	C-4
Q2516	C-3

DIODE	
D1001	A-2
D1002	A-2
D1003	A-2
D1004	B-1
D1005	B-1
D1006	C-1
D1007	C-1
D1008	C-1
D1009	C-1
D1010	C-1
D1013	D-1
D1014	D-1
D1015	D-1
D1016	E-1
D1020	A-1
D1101	E-1
D1102	E-2
D1103	E-2
D1201	E-2
D1202	D-2
D1203	E-2
D2101	D-2
D2102	D-2
D2301	C-3

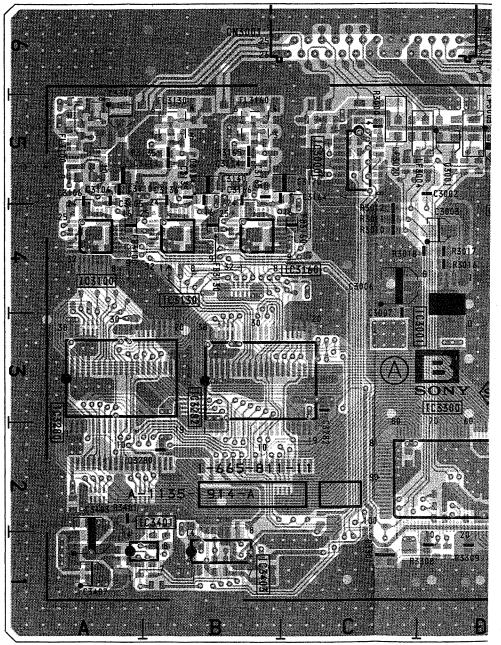
B BOARD
(A SIDE)

IC	
IC3000	C-5
IC3001	D-4
IC3100	A-4
IC3130	B-4
IC3160	B-4
IC3280	A-3
IC3282	B-3
IC3300	D-2
IC3301	E-2
IC3401	A-1
IC3403	B-1
IC3500	E-2
TRANSISTOR	
Q3700	D-4
Q3701	E-4
Q3702	E-4
Q3703	D-3
Q3704	E-3
Q3705	E-3
DIODE	
D3301	C-1
D3700	E-3
D3730	E-3
D3760	D-3

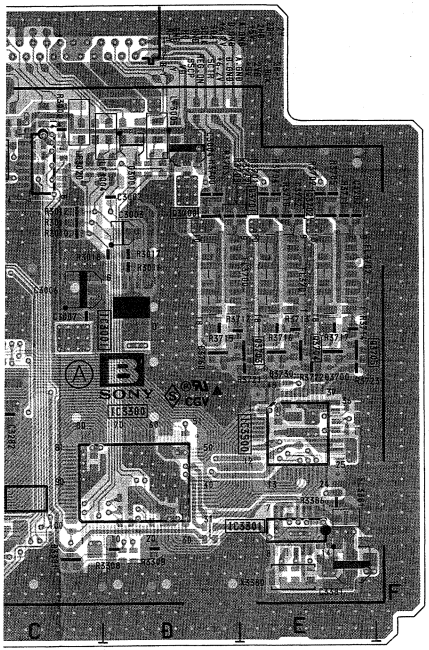
B [SCAN CONVERTER]

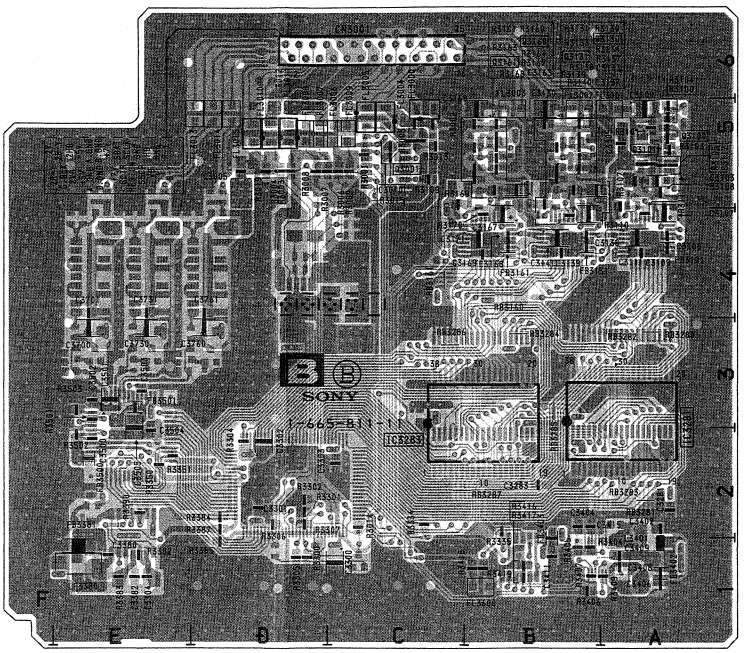
– B BOARD –

<A Side>



<B Side>

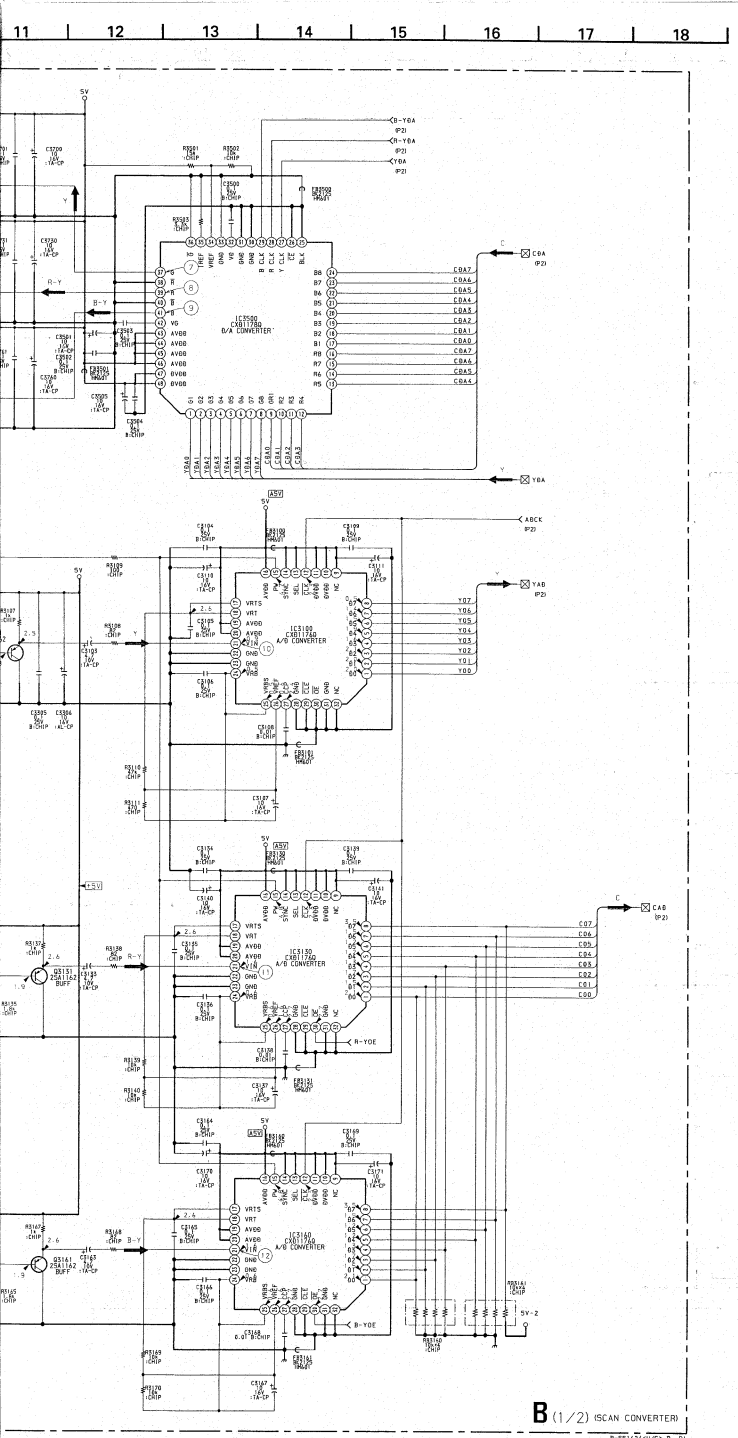




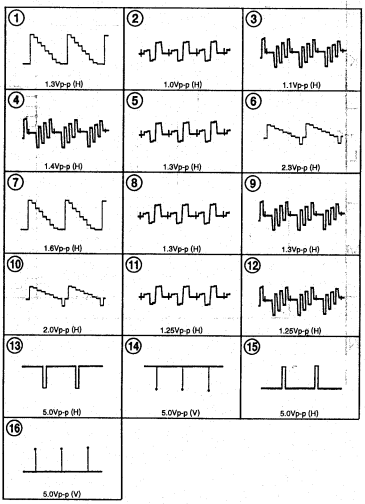
B BOARD (B SIDE)

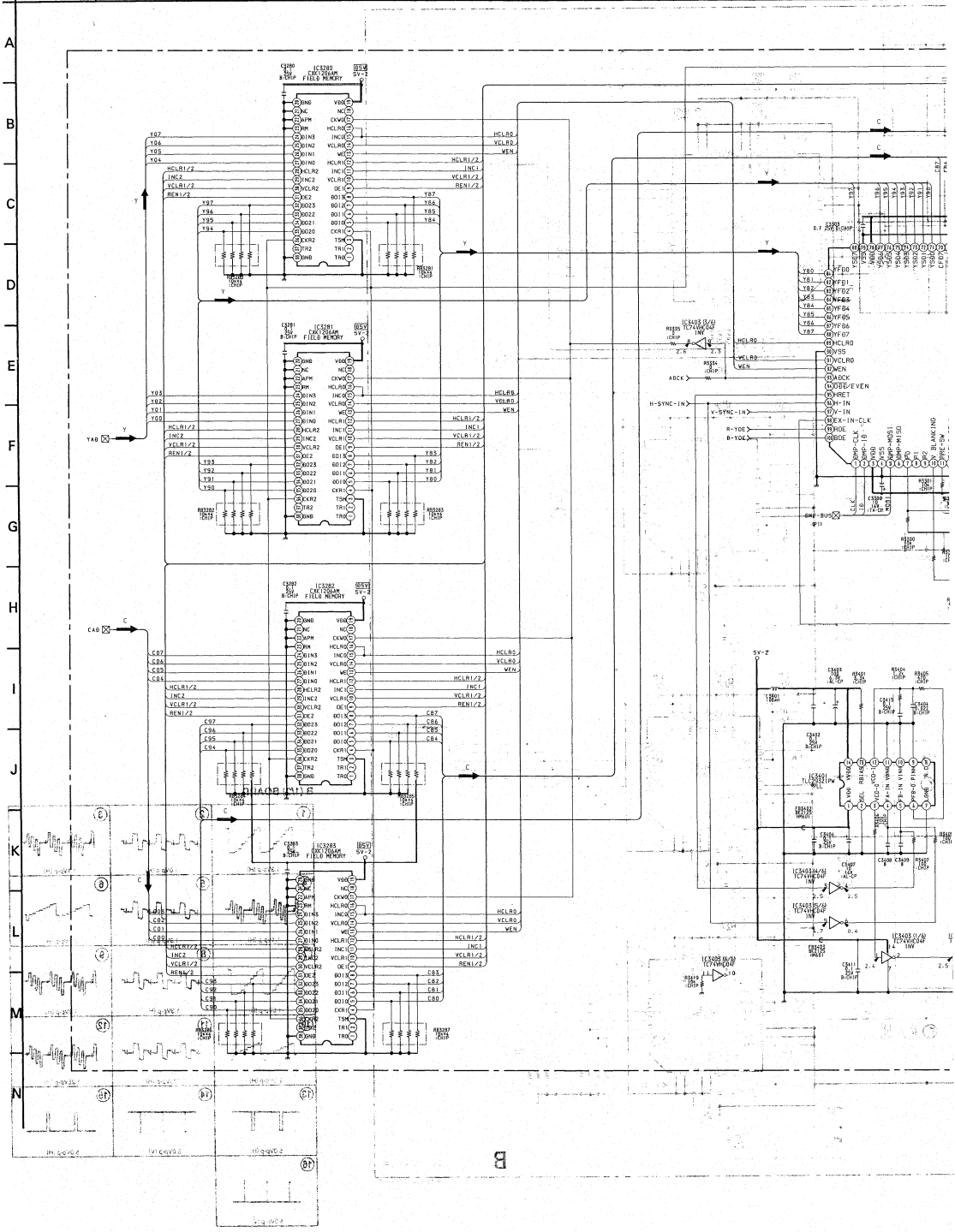
IC	
IC3281	A-2
IC3283	B-2
TRANSISTOR	
Q3001	C-5
Q3100	A-5
Q3101	A-5
Q3130	B-5
Q3131	B-5
Q3160	B-5
Q3161	B-5

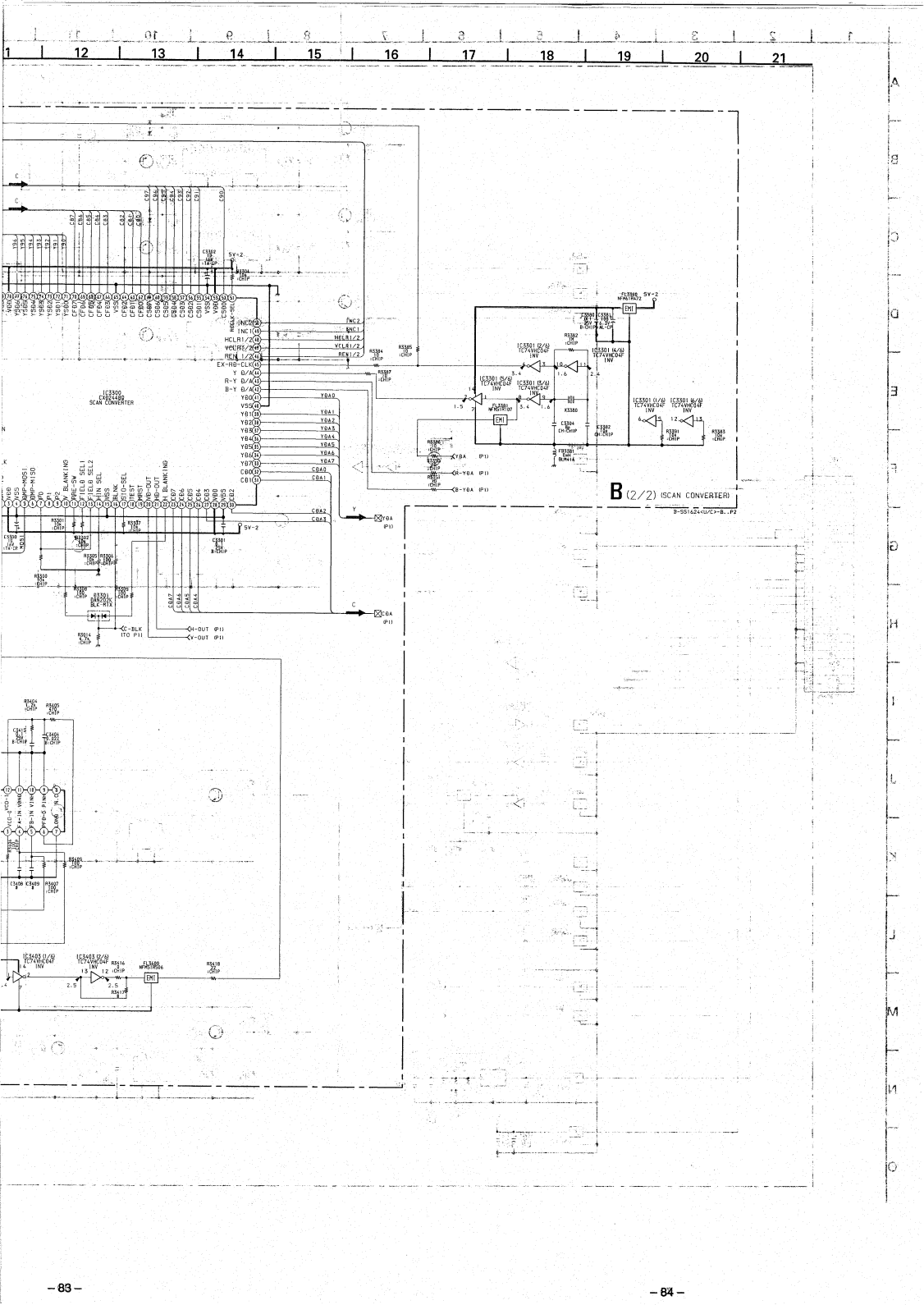
• : Pattern from the side which enables seeing.
• : Pattern of the rear side.

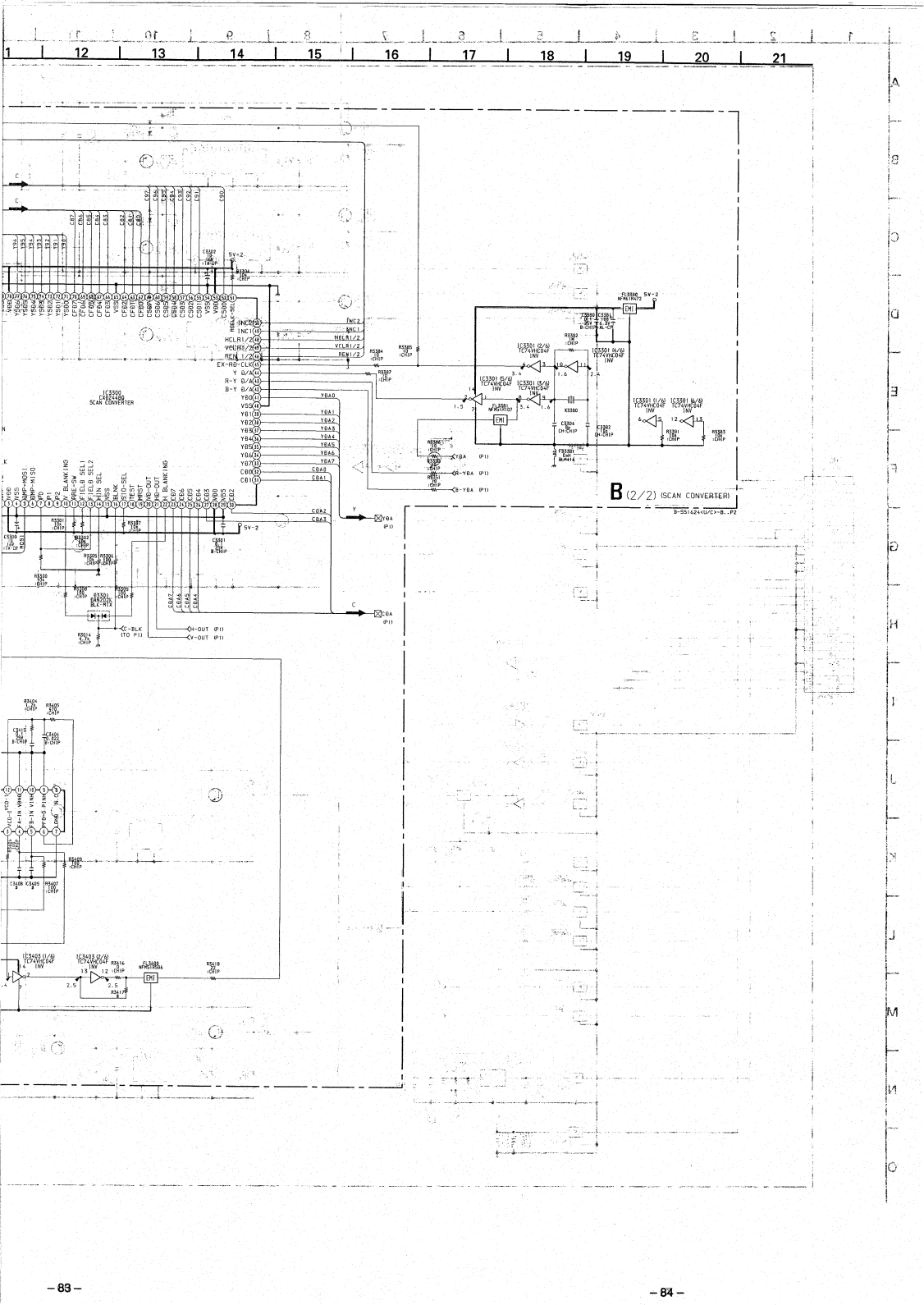

11
12
13
14
15
16
17
18
B-YOA
R-YOA
YOA
CDA
YDA
IC3500
CXB1178Q
D/A CONVERTER
ABCK
YAD
IC3100
CXB1176Q
A/D CONVERTER
CAD
IC3150
CXB1176Q
A/D CONVERTER
IC3160
CXB1176Q
A/D CONVERTER
R-YOE
B-YOE
SV-2
B (1/2) (SCAN CONVERTER)

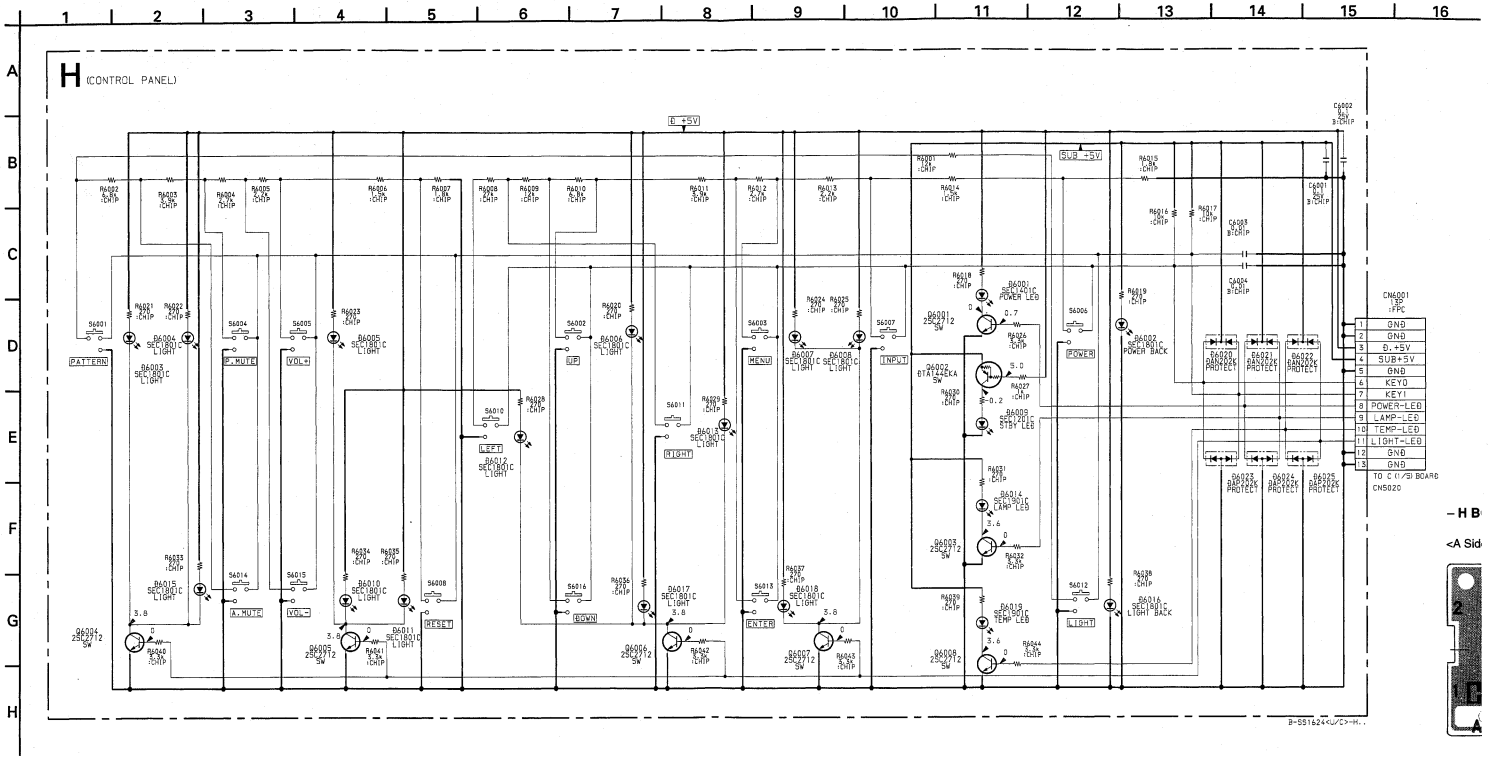
B (1/2) BOARD


1
1.3Vp-p (H)
2
1.0Vp-p (H)
3
1.1Vp-p (H)
4
1.4Vp-p (H)
5
1.3Vp-p (H)
6
2.3Vp-p (H)
7
1.6Vp-p (H)
8
1.3Vp-p (H)
9
1.3Vp-p (H)
10
2.0Vp-p (H)
11
1.25Vp-p (H)
12
1.25Vp-p (H)
13
5.0Vp-p (H)
14
5.0Vp-p (V)
15
5.0Vp-p (H)
16
5.0Vp-p (V)



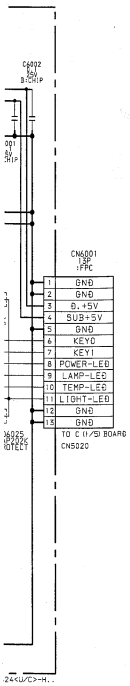

B (2/2) (SCAN CONVERTER)
B-SS1624<U/C>-B..P2

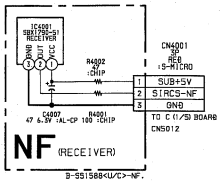

B (2/2) (SCAN CONVERTER)
B-SS1624<U/C>-B..P2
IC3200 CXA2466Q SCAN CONVERTER
IC3501 (1/6) TC74VHC04F INV
IC3501 (2/6) TC74VHC04F INV
IC3501 (3/6) TC74VHC04F INV
IC3501 (4/6) TC74VHC04F INV
IC3501 (5/6) TC74VHC04F INV
IC3501 (6/6) TC74VHC04F INV
IC3403 (1/6) TC74VHC04F INV
IC3403 (2/6) TC74VHC04F INV
5V-2
Y-BLK (TO P1)
H-OUT (P1)
V-OUT (P1)
R-YBA (P1)
B-YBA (P1)
YBA (P1)
Y
C
YBA (P1)
CBA (P1)

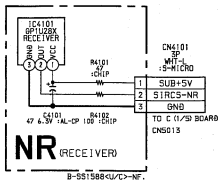

H (CONTROL PANEL)
D +5V
SUB +5V
PATTERN
A.MUTE
VOL+
VOL-
UP
DOWN
LEFT
RIGHT
MENU
ENTER
INPUT
POWER
RESET
LIGHT
POWER LED
STBY LED
LAMP LED
TEMP LED
POWER BACK
LIGHT BACK
CN6001
1 GND
2 GND
3 D.+5V
4 SUB+5V
5 GND
6 KEY0
7 KEY1
8 POWER-LED
9 LAMP-LED
10 TEMP-LED
11 LIGHT-LED
12 GND
13 GND
TO C(I/S) BOARD
CN5020
B-5516244

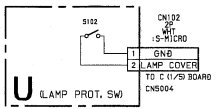
15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23

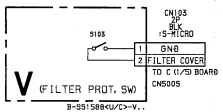
H [CONTROL PANEL] **NF** [RECEIVER] **NR** [RECEIVER] **U** [PROT SW] **V** [PROT SW]



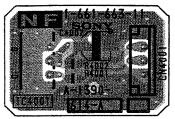




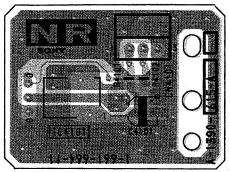




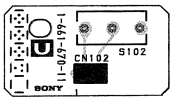
– NF BOARD –



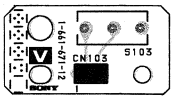
– NR BOARD –



– U BOARD –

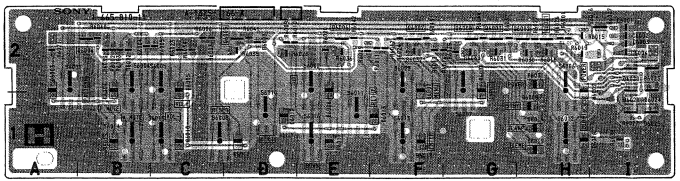


– V BOARD –

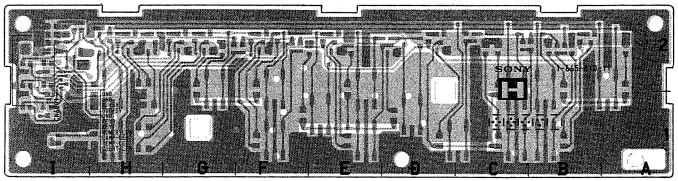


– H BOARD –

<A Side>



<B Side>



• : Pattern from the side which enables seeing.
• : Pattern of the rear side.

C [PANEL DRIVE, CPU]

– C BOARD –

C BOARD (A SIDE)

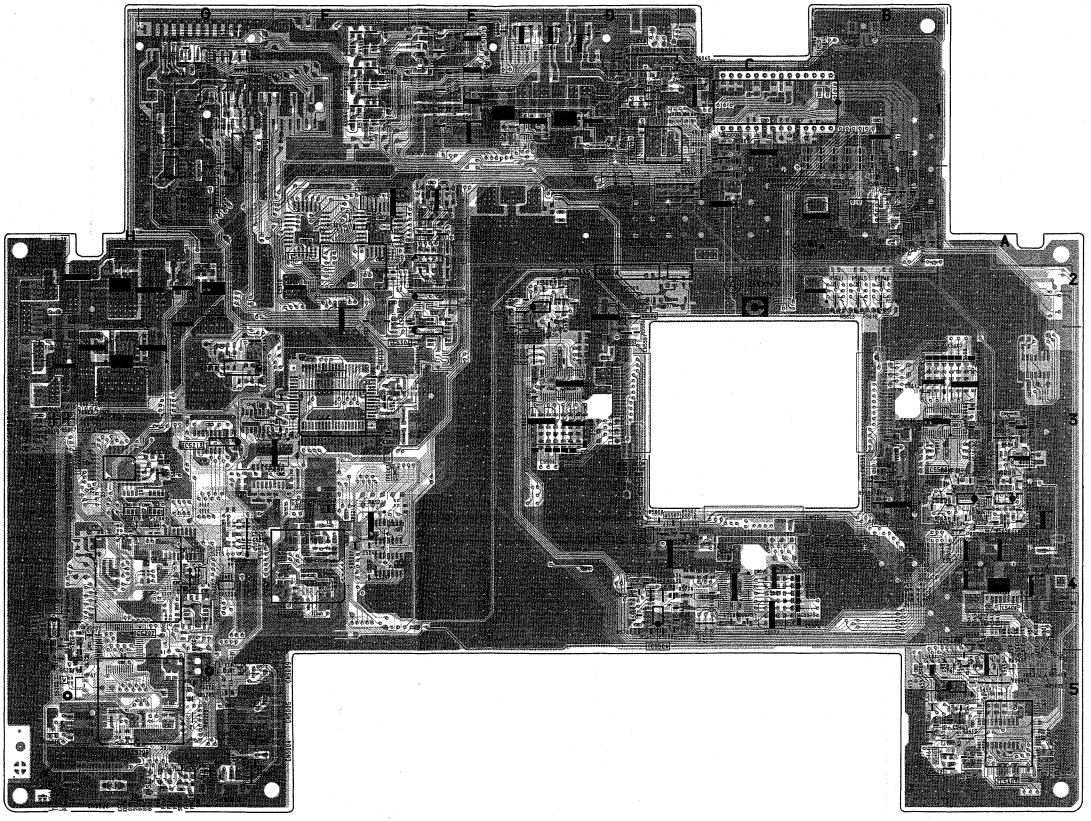
IC	
IC5001	E-1
IC5002	G-2
IC5003	H-2
IC5004	D-1
IC5006	H-3
IC5007	D-1
IC5008	C-1
IC5009	G-1
IC5010	D-1
IC5011	F-3
IC5012	G-3
IC5014	G-1
IC5015	G-1
IC5202	G-4
IC5205	H-3
IC5207	F-4
IC5208	G-5
IC5209	H-4
IC5213	G-3
IC5301	E-2
IC5302	F-2
IC5303	E-2
IC5306	E-2
IC5403	A-5
IC5404	A-4
IC5413	A-5
IC5502	A-2
IC5503	E-2
IC5504	D-4
IC5508	A-4
IC5509	A-4

TRANSISTOR	
Q5002	C-2
Q5003	C-1
Q5004	C-1
Q5015	F-1
Q5017	F-1
Q5024	F-1
Q5026	F-1
Q5027	G-1
Q5031	G-2
Q5032	G-1
Q5037	F-1
Q5038	F-1
Q5039	G-1
Q5041	G-1
Q5042	G-1
Q5043	G-2
Q5305	E-2
Q5306	E-2
Q5307	E-2
Q5401	A-4
Q5402	A-5
Q5403	A-5
Q5505	D-3
Q5506	D-2
Q5507	D-4
Q5508	C-4
Q5509	B-4
Q5510	B-3

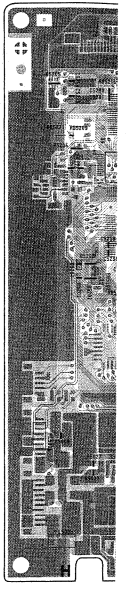
DIODE	
D5001	G-5
D5003	G-5
D5005	G-5
D5006	G-5
D5007	G-5
D5011	G-5
D5012	G-5
D5016	H-3
D5017	H-3
D5018	H-3
D5019	H-3
D5204	F-4
D5501	D-2
D5502	C-4
D5503	B-3

VARIABLE RESISTOR	
RV5532	A-3

<A Side>



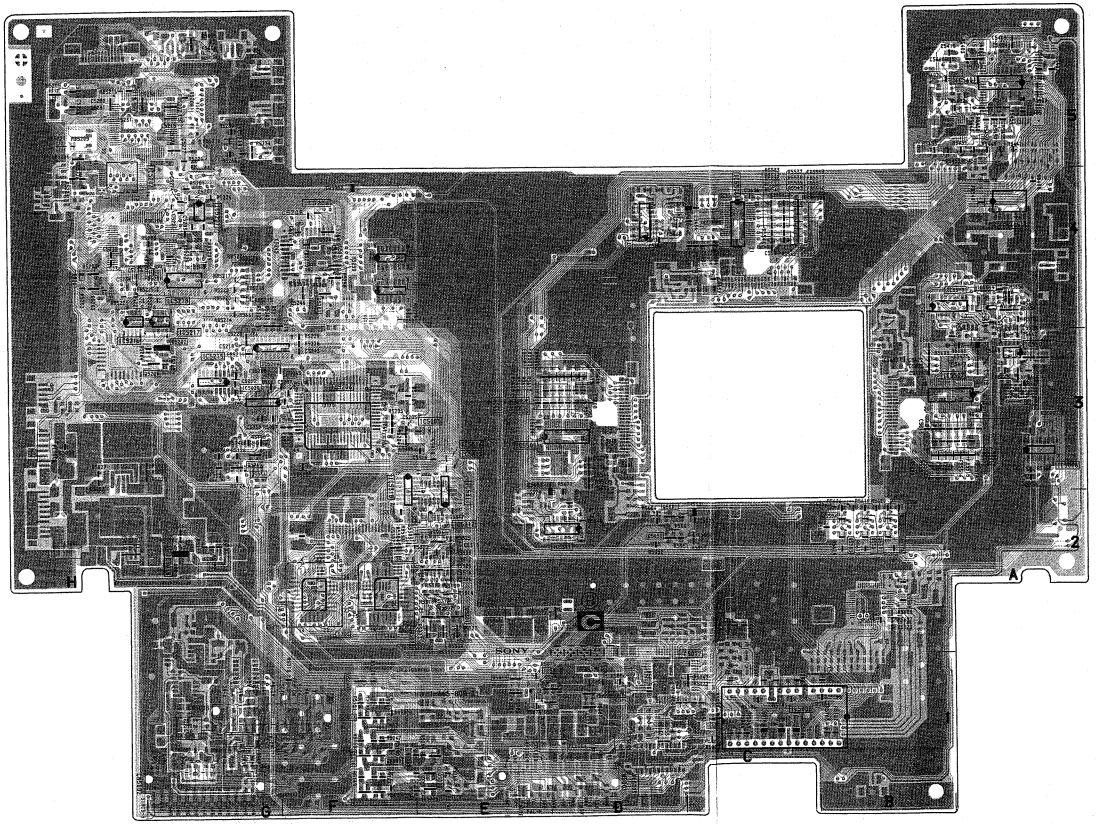
<B Side>



Schematic diagrams

← H, NF, NR, U, V boards

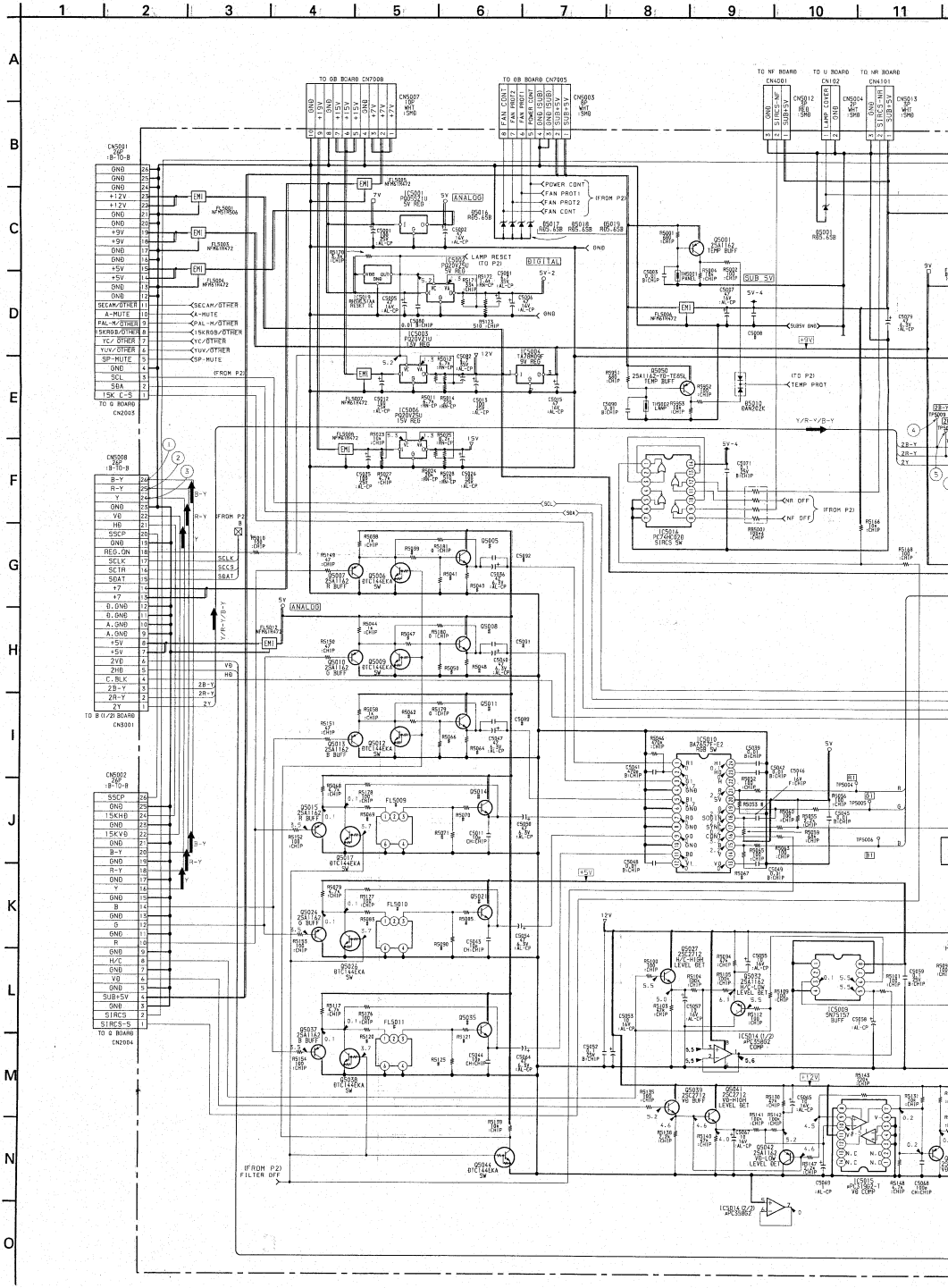
<B Side>

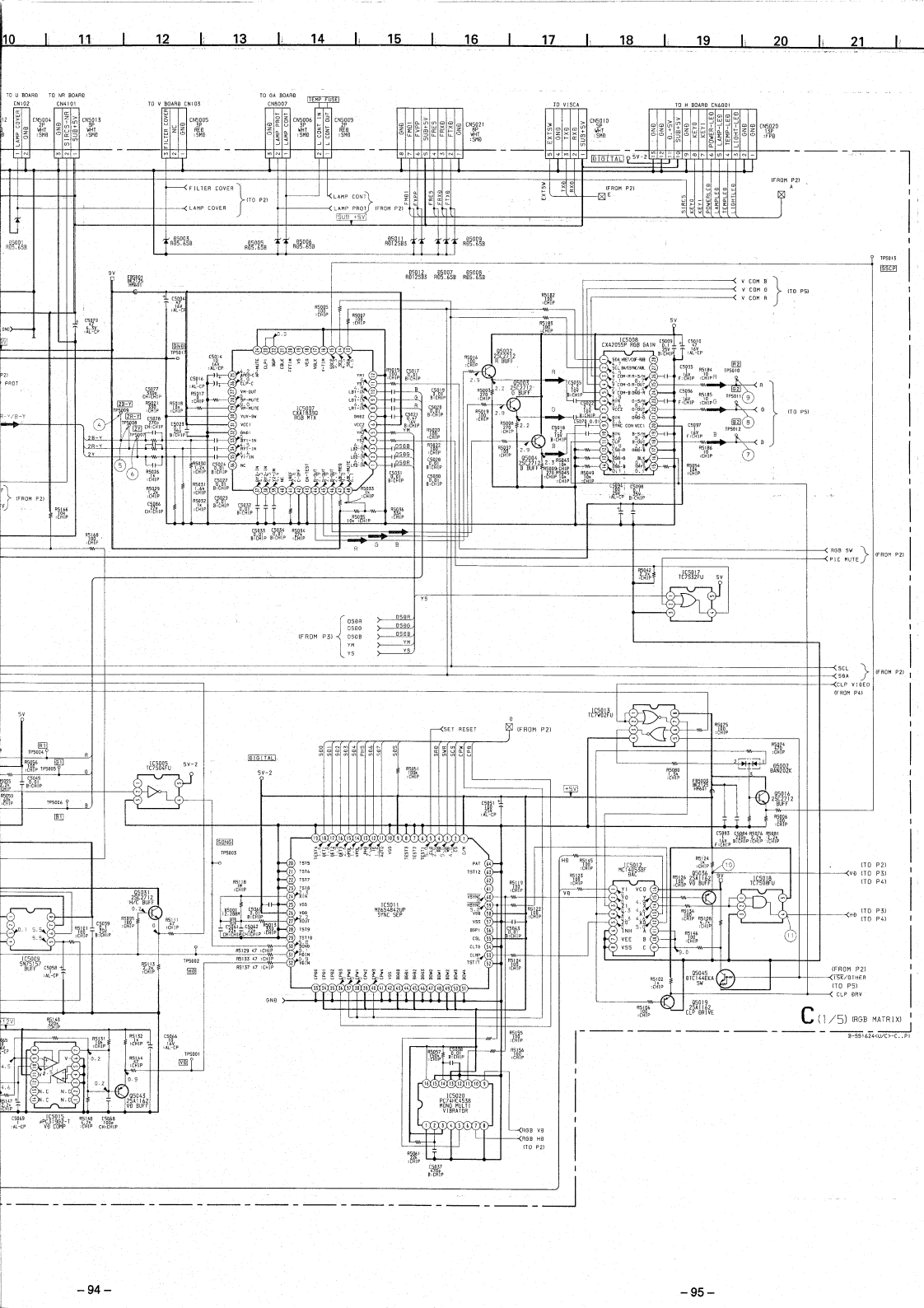


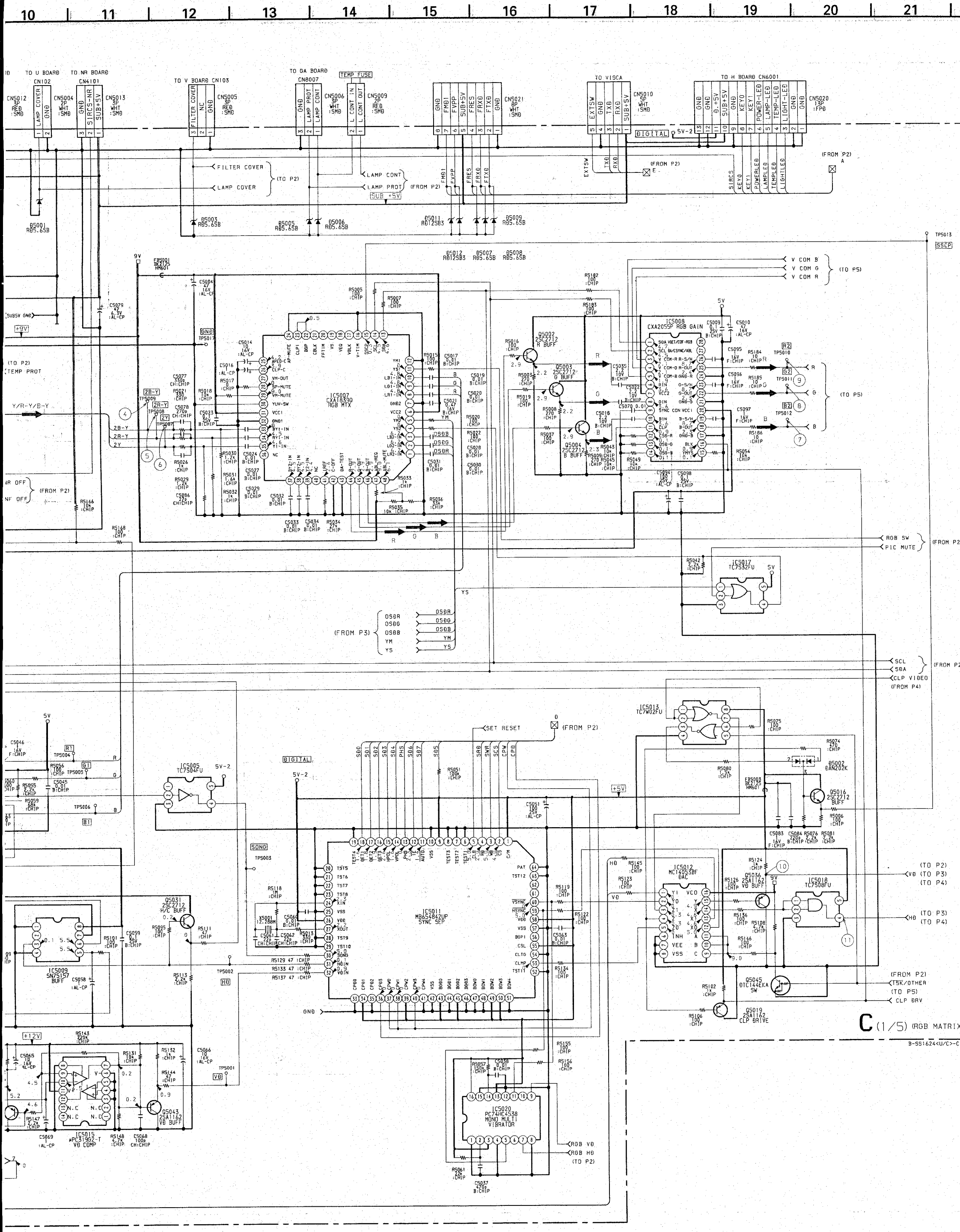
C BOARD
(B SIDE)

IC		TRANSISTOR	
IC5005	E-3	Q5001	D-2
IC5008	C-1	Q5005	E-1
IC5013	E-1	Q5006	F-1
IC5016	A-3	Q5007	F-1
IC5017	C-1	Q5009	F-1
IC5018	G-3	Q5010	F-1
IC5019	G-2	Q5012	F-1
IC5020	G-3	Q5013	F-1
IC5201	G-4	Q5016	D-1
IC5203	H-4	Q5019	E-1
IC5204	F-4	Q5036	G-3
IC5206	F-3	Q5044	F-1
IC5210	E-4	Q5045	G-3
IC5212	E-4	Q5050	D-2
IC5214	G-3	Q5201	F-4
IC5215	G-3	Q5202	G-3
IC5216	H-4	Q5204	G-3
IC5217	G-4	Q5301	E-2
IC5218	G-4	Q5302	F-2
IC5219	G-5	Q5303	E-2
IC5304	F-2	Q5304	E-2
IC5305	F-2	Q5501	B-2
IC5310	F-3	Q5502	B-2
IC5311	E-3	Q5503	B-2
IC5312	E-2	Q5504	B-2
IC5313	E-3	Q5576	B-2
IC5314	E-3	Q5580	B-2
IC5401	A-5		
IC5402	B-5	**DIODE**	
IC5405	A-4		
IC5501	A-3	D5002	E-1
IC5505	D-3	D5008	G-5
IC5506	C-4	D5009	G-5
IC5507	A-3	D5010	D-2
IC5511	D-2	D5201	H-4
IC5512	D-4	D5202	H-4
IC5513	A-4	D5203	H-4
IC5514	A-4	D5205	H-5
		D5206	H-5
		D5504	A-3
		D5505	A-3

• : Pattern from the side which enables seeing.
• : Pattern of the rear side.

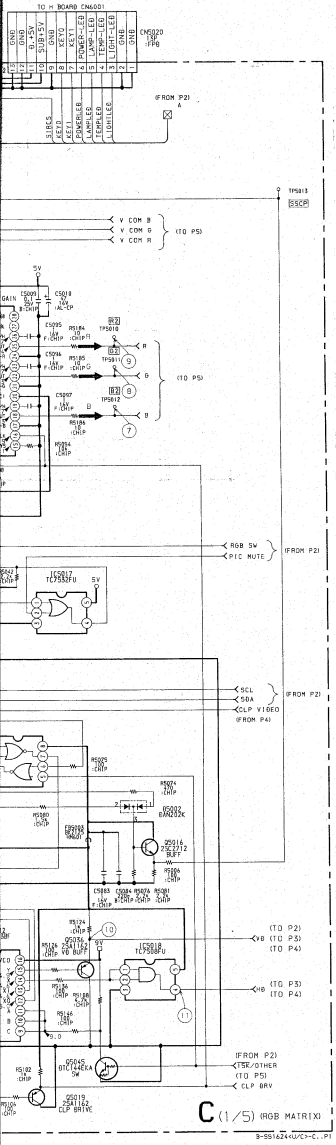



10
11
12
13
14
15
16
17
18
19
20
21
C (1/5) (RGB MATRIX)
B-SS1624-U/C3-C..P1


10
11
12
13
14
15
16
17
18
19
20
21
TO U BOARD CN102
TO NR BOARD CN4101
TO V BOARD CN103
TO GA BOARD CN8007
TEMP FUSE
TO VISCA
TO H BOARD CN6001
CN5012 3P RED :SMD
CN5004 2P WHT :SMD
CN5013 3P WHT :SMD
CN5005 3P RED :SMD
CN5006 3P WHT :SMD
CN5009 2P RED :SMD
CN5021 8P WHT :SMD
CN5010 5P WHT :SMD
CN5020 13P :FPD
FILTER COVER
LAMP COVER
(TO P2)
LAMP CONT
LAMP PROT
(FROM P2)
SUB +5V
DIGITAL
5V-2
IC5007 CXA1839Q RGB MTX
IC5008 CXA2055P RGB GAIN
Q5002 2SC2712 R BUFF
Q5003 2SC2712 G BUFF
Q5004 2SC2712 B BUFF
V COM B
V COM G
V COM R
(TO P5)
TP5013 SSCP
RGB SW
PIC MUTE
IC5017 TC7S32FU
(FROM P3)
OSDR
OSDG
OSDB
YM
YS
SCL
SDA
CLP VIDEO
(FROM P4)
IC5013 TC7W02FU
SET RESET
IC5005 TC7S04FU
IC5011 MB654842UP SYNC SEP
IC5012 MC14053BF DAC
IC5018 TC7S08FU
Q5002 DAN202K
Q5016 2SC2712 BUFF
Q5036 2SA1162 VD BUFF
Q5045 DTC144EKA SW
Q5019 2SA1162 CLP DRIVE
Q5031 2SC2712 H/C BUFF
IC5009 SN75157 BUFF
IC5015 μPC319G2-T VD COMP
Q5043 2SA1162 VD BUFF
IC5020 PC74HC4538 MONO MULTI VIBRATOR
RGB VD
RGB HD
(TO P2)
TSK/OTHER
CLP DRV
VD
HD
(TO P3)
(TO P4)
GND
+12V
+5V
9V
5V

C (1/5) (RGB MATRIX

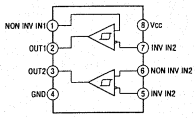
B-SS1624<U/C>-C



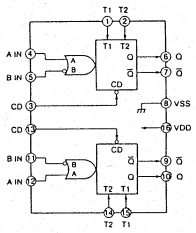
C (1/5) BOARD

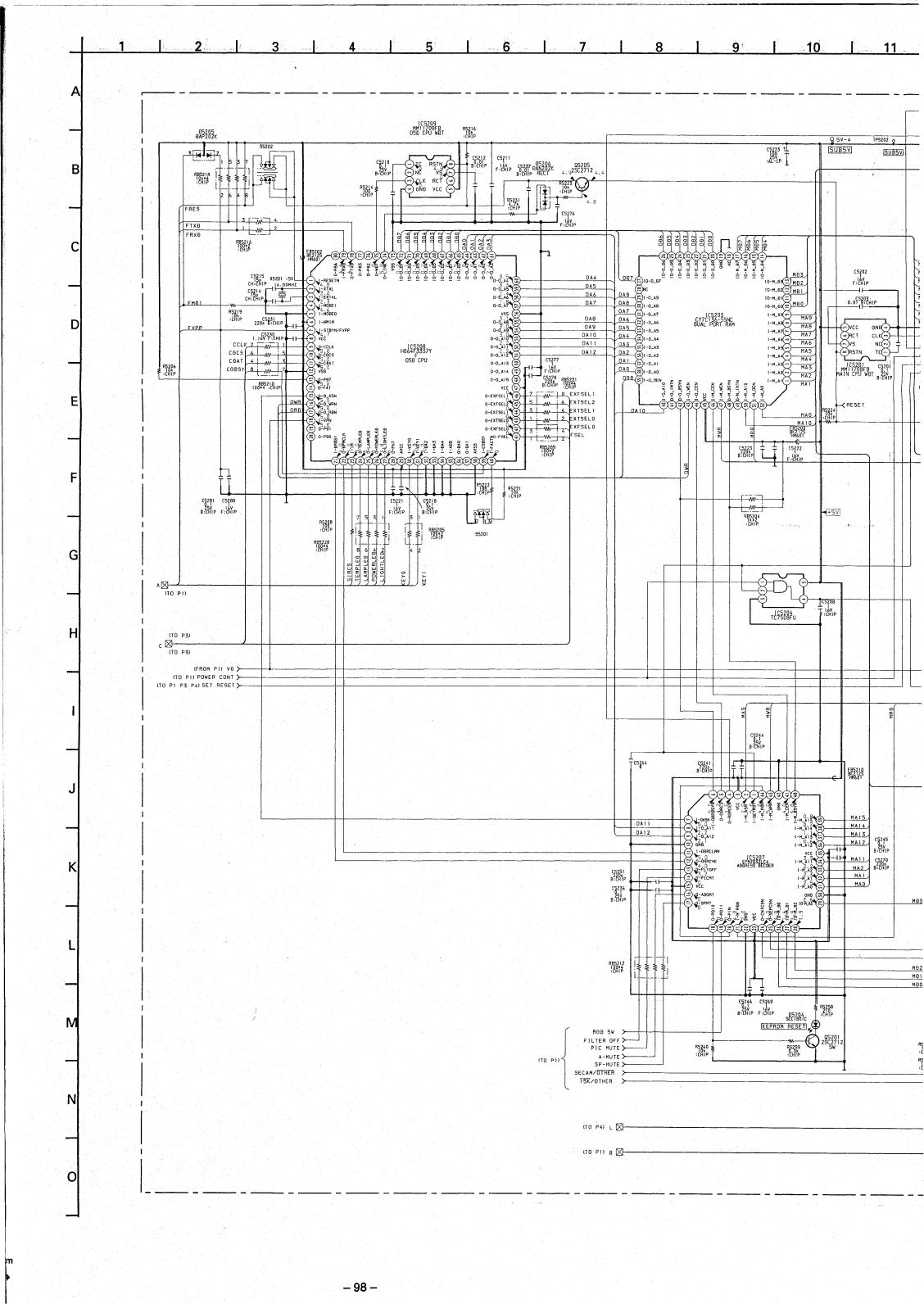
① 1.4Vp-p (H)	② 1.4Vp-p (H)	③ 2.1Vp-p (H)
④ 1.1Vp-p (H)	⑤ 1.1Vp-p (H)	⑥ 1.2Vp-p (H)
⑦ 1.0Vp-p (H)	⑧ 1.0Vp-p (H)	⑨ 1.0Vp-p (H)
⑩ 4.3Vp-p (V)	⑪ 5.0Vp-p (H)	

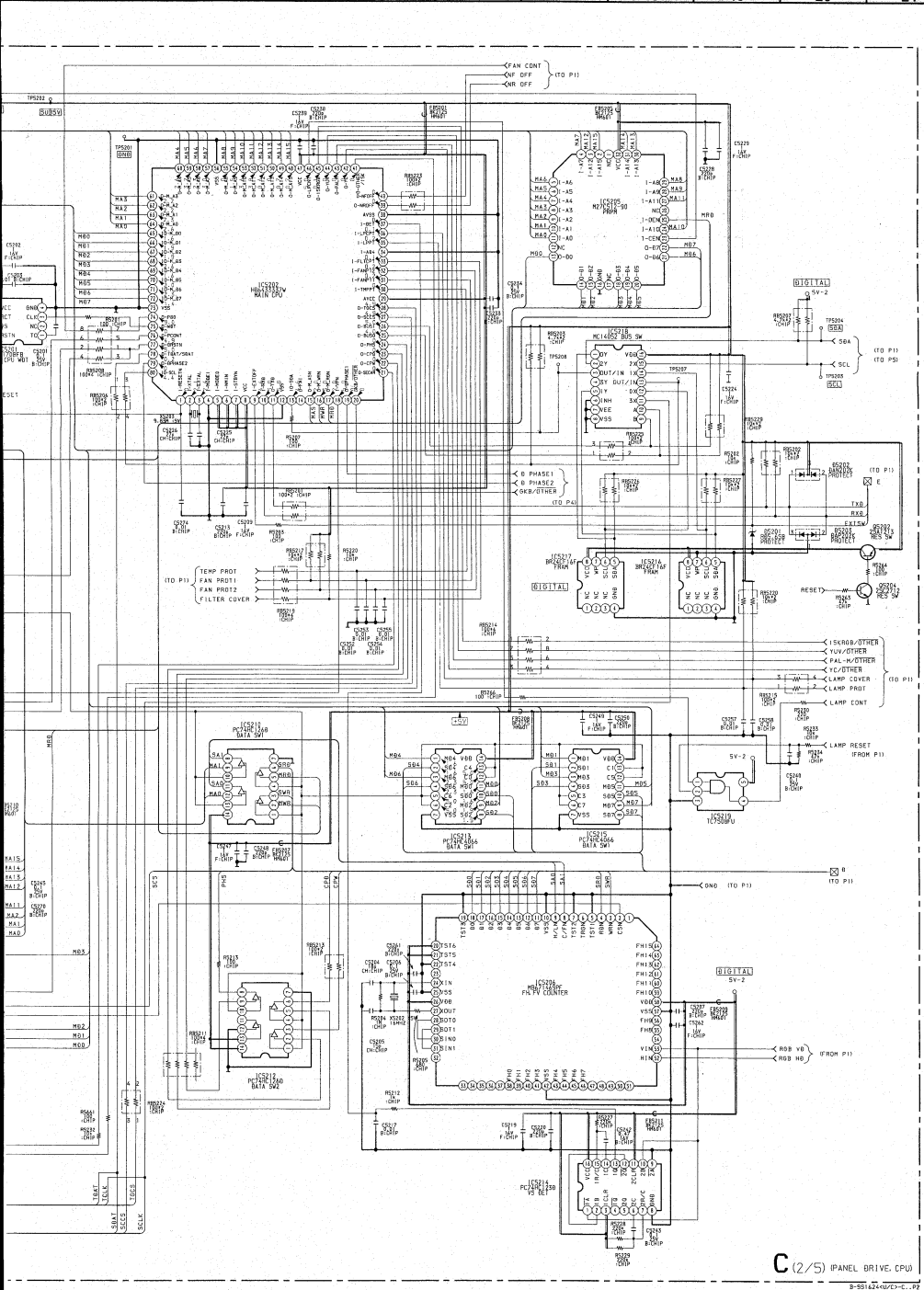
C (1/5) BOARD IC5009 SN75157PS

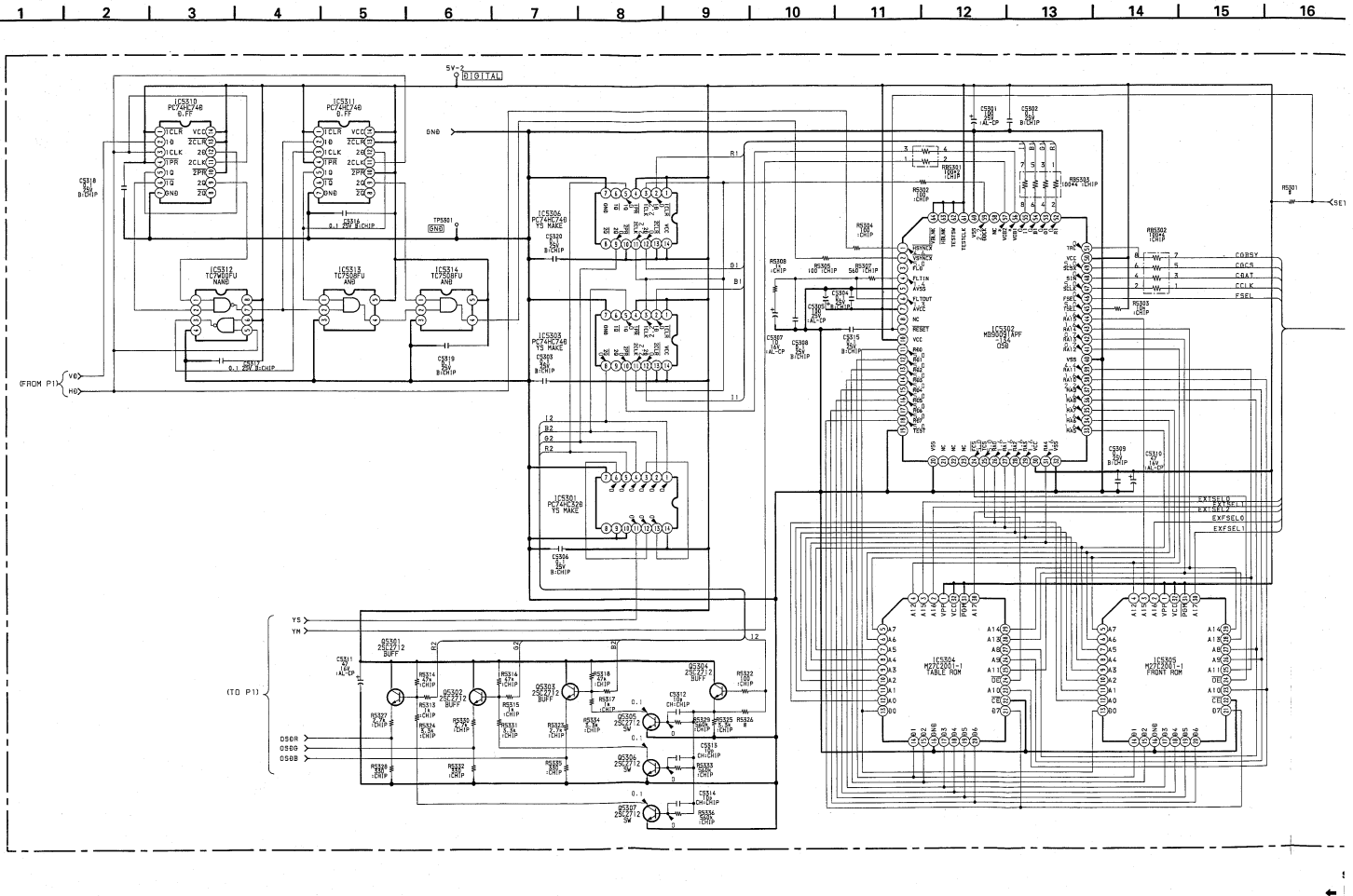


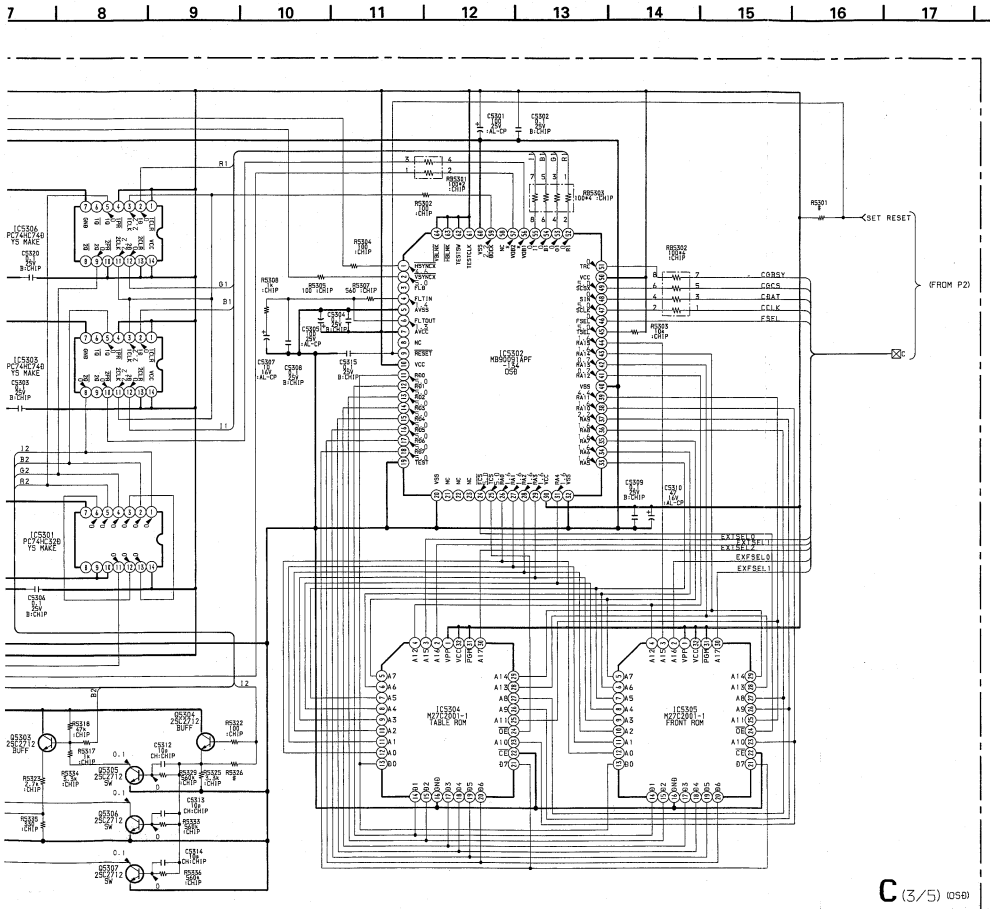
C (1/5) BOARD IC5020 PC74HC4538D




IC5209
MN1120B-S
OSD CPU INT
IC5208
M64F28527Y
OSD CPU
IC5206
CY7C144C-55NC
DUAL PORT RAM
IC5201
MN1109ERA
MAIN CPU WDT
IC5207
CXA2069R
ADDRESS DECODER
IC5203
TC7S08FU
RESET
EEPROM RESET
(TO P1)
(TO P3)
(FROM P1) VB
(TO P1) POWER CONT
(TO P1 P3 P4) SET RESET
RGB SW
FILTER OFF
PIC MUTE
A-MUTE
SP-MUTE
SECAM/OTHER
TSE/OTHER
(TO P1)
(TO P4) L
(TO P1) B


11
12
13
14
15
16
17
18
19
20
21
22
FAN CONT
NF OFF
NR OFF
(TO P1)
IC5202
MB91F133W
MAIN CPU
IC5203
M27C4001-90
PROM
IC5218
MC14052 BDS SW
IC5210
PCF8574AT/A66
DATA SW1
IC5213
PCF8574A/A66
DATA SW1
IC5215
PCF8574A/A66
DATA SW1
IC5219
TC7S08FU
IC5212
PCF8574/A40
DATA SW2
IC5206
MB87L2250
FH PV COUNTER
IC5214
PCF8574/A30
VS DET
IC5217
BR24C16AF
FRAM
IC5311
BR24C16AF
FRAM
IC5201
M24C16-WMN6
EEPROM
IC5204
M24C16-WMN6
EEPROM
IC5205
M24C16-WMN6
EEPROM
IC5207
M24C16-WMN6
EEPROM
IC5208
M24C16-WMN6
EEPROM
IC5209
M24C16-WMN6
EEPROM
DIGITAL
5V-2
(TO P1)
(TO P5)
(TO P4)
(TO P3)
TEMP PROT
FAN PROT1
FAN PROT2
FILTER COVER
B PHASE1
B PHASE2
DKB/OTHER
ISKRGB/OTHER
YUV/OTHER
PAL-M/OTHER
YC/OTHER
LAMP COVER
LAMP PROT
LAMP CONT
LAMP RESET
(FROM P1)
RESET
TXD
RXD
EXTSW
GND (TO P1)
RGB VD
RGB HD
(FROM P1)
C (2/5) (PANEL DRIVE CPU)
B-9816&24<U/C>-C..P2


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
5V=2
DIGITAL
GND
IC5310 PC74HC74B D FF
IC5311 PC74HC74B D FF
IC5312 TC7W08FU NAND
IC5313 TC7S08FU AND
IC5314 TC7S08FU AND
IC5301 PC74HC32B Y5 MAKE
IC5302 PC74HC74B Y5 MAKE
IC5303 MB90092APF -134 OSD
IC5304 M27C2001-1 TABLE ROM
IC5305 M27C2001-1 FRONT ROM
Q5301 2SC2712 BUFF
Q5302 2SC2712 BUFF
Q5303 2SC2712 BUFF
Q5304 2SC2712 BUFF
Q5305 2SC2712 SW
Q5306 2SC2712 SW
Q5307 2SC2712 SW
(FROM P1)
V0
H0
(TO P1)
Y5
YM
OSDR
OSDG
OSDB
R1
G1
B1
I1
I2
R2
G2
B2
CDRSY
CDCS
CDAT
CCLK
FSEL
EXTSEL3
EXTSEL2
EXTSEL1
EXTSEL0
EXFSEL1



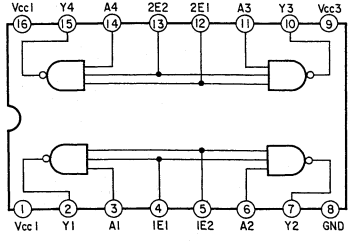
Schematic diagram

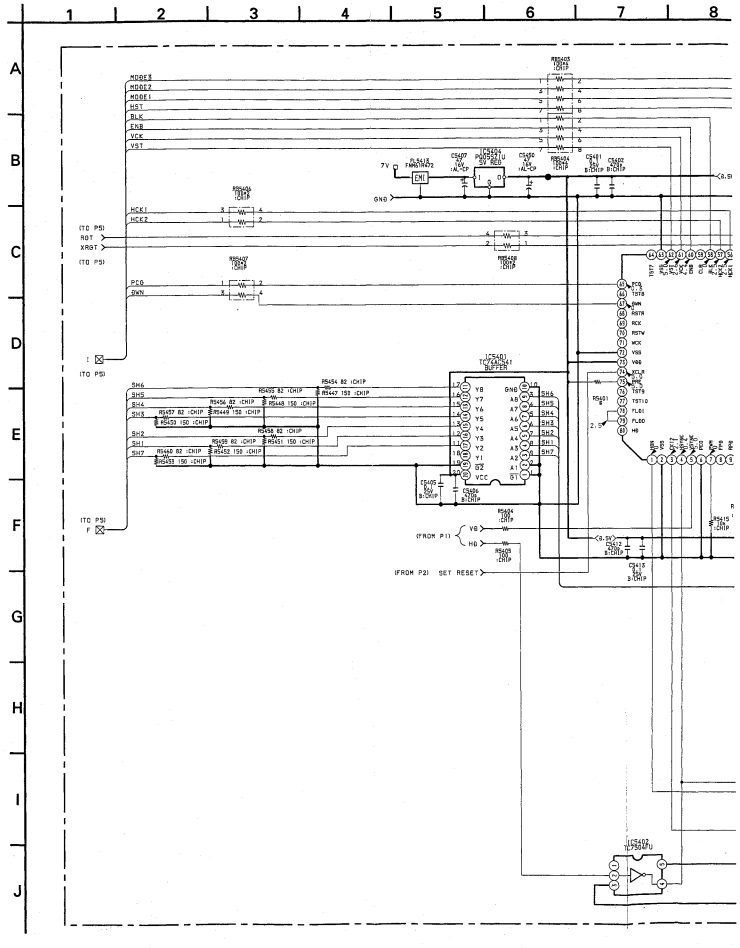
← C (3/5) board

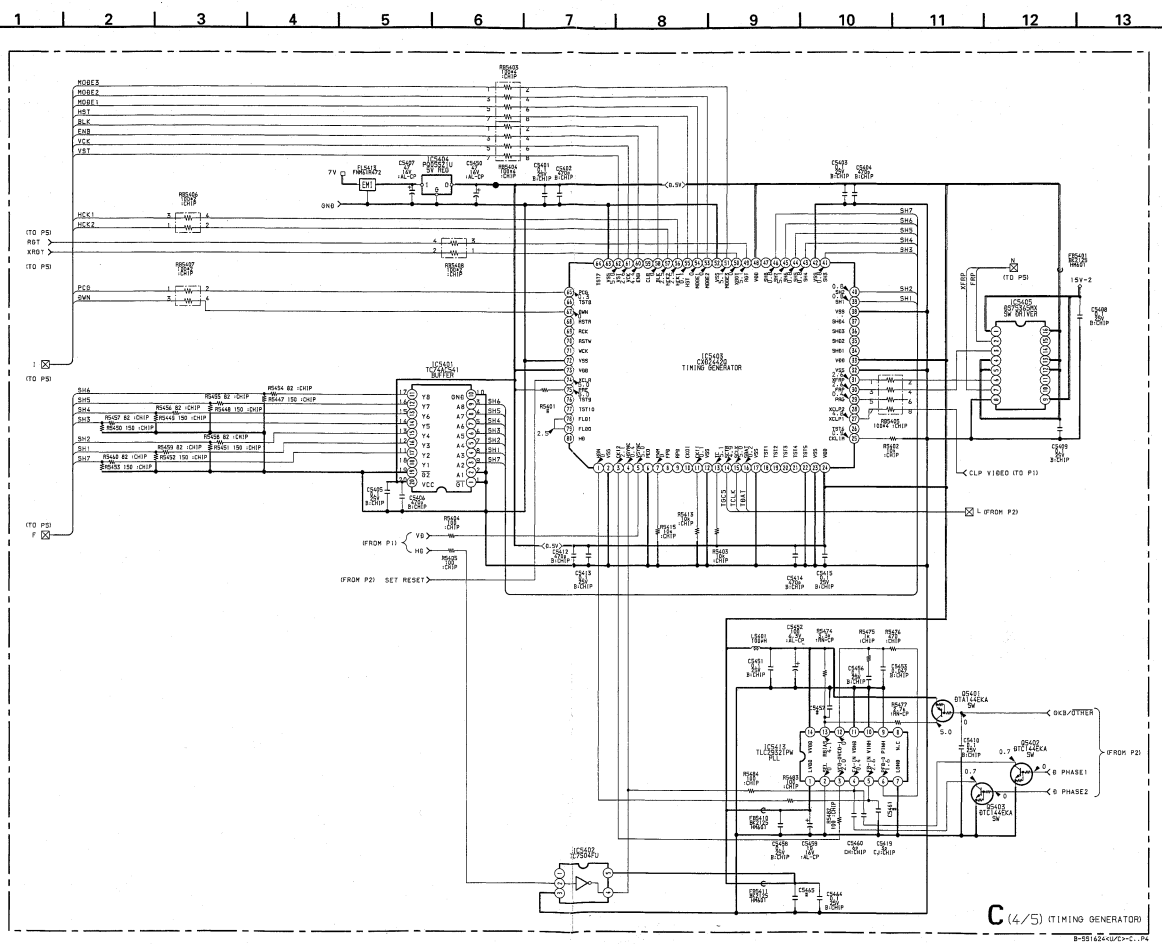
Schematic diagram

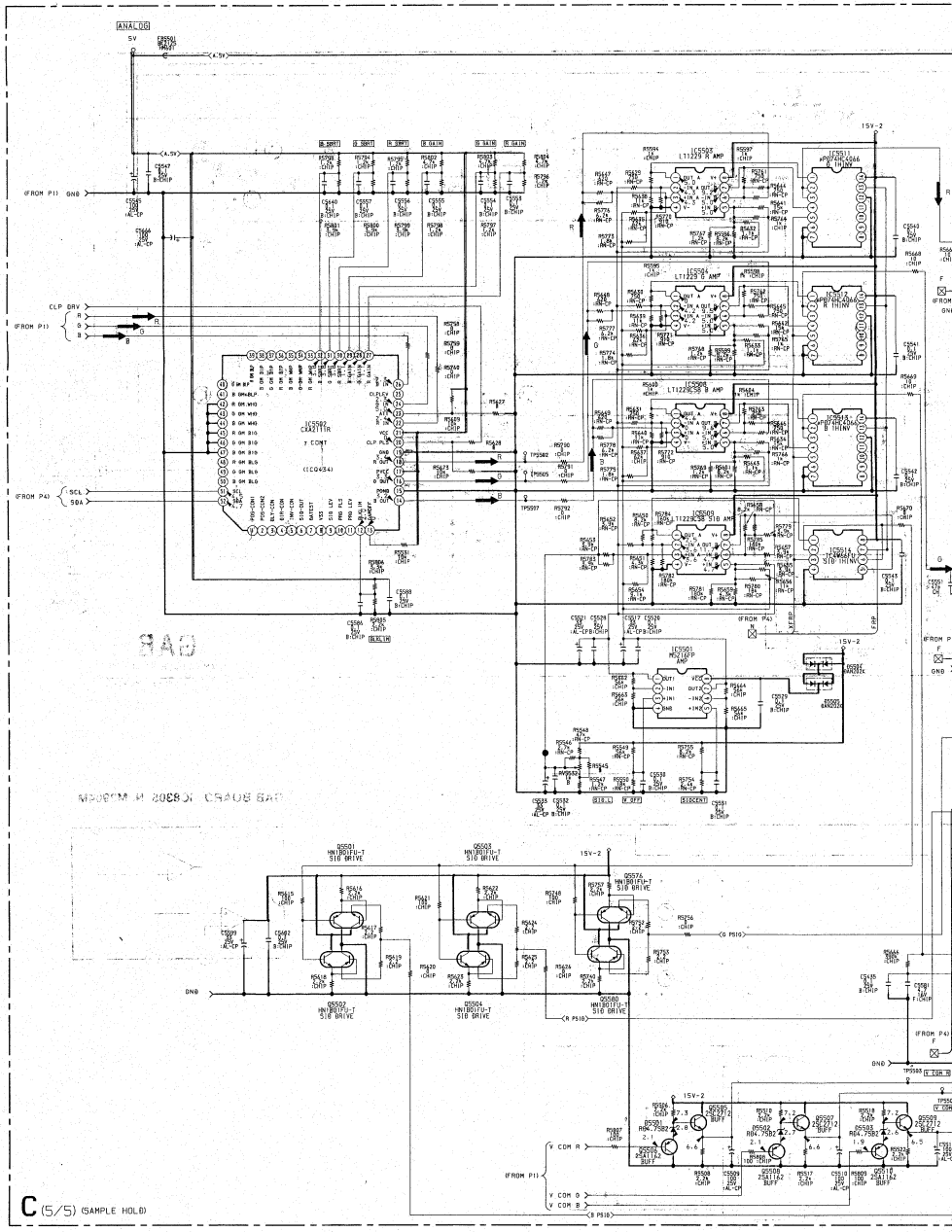
C (4/5) board →

C (4/5) BOARD IC5405 DS75365MX

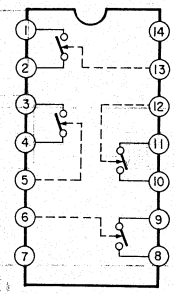




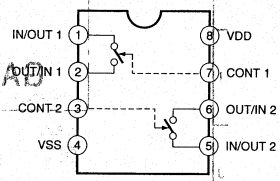

C (4/5) (TIMING GENERATOR)
B-551624<U/E>-C..P4

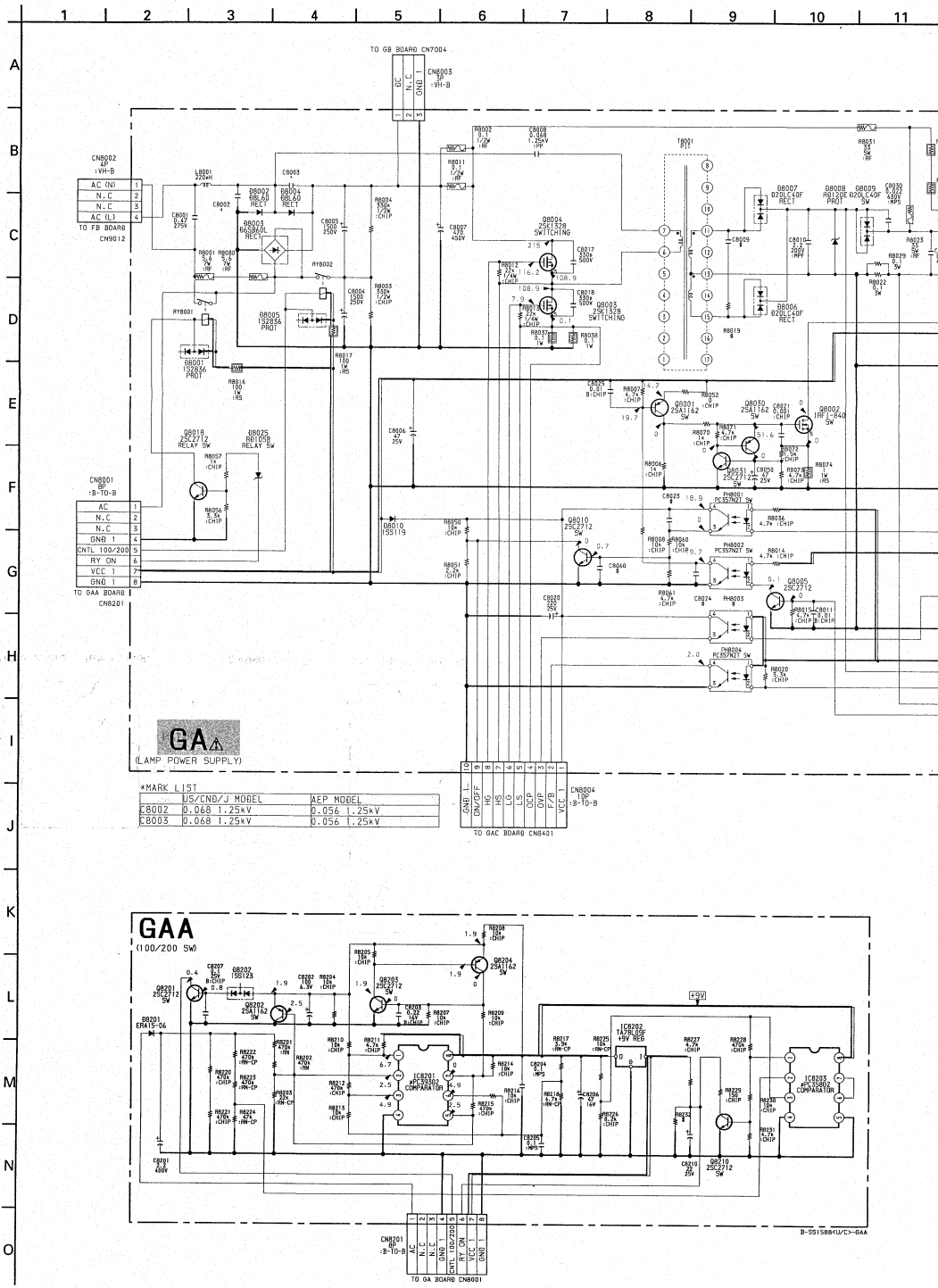

ANALOG
5V
(A.5V)
(FROM P11) GND
CLP DRV
(FROM P13)
(FROM P4) SCL
SDA
IC5502
CXA3111R
7 CONT
(CEQ434)
IC5503
LT1228CS8 S10 AMP
IC5504
LT1228 S AMP
IC5505
LT1228 B AMP
IC5506
LT1228CS8 S10 AMP
IC5507
LT1228 R AMP
IC5508
LT1228CS8 S10 AMP
IC5509
LT1228 G AMP
IC5510
LT1228CS8 S10 AMP
IC5511
PQ018EZ5MZ0K
IC5512
PQ018EZ5MZ0K
IC5513
PQ018EZ5MZ0K
IC5514
PQ018EZ5MZ0K
IC5501
M51132P AMP
15V-2
Q5501
HN1B01FU-T S10 DRIVE
Q5503
HN1B01FU-T S10 DRIVE
Q5576
HN1B01FU-T S10 DRIVE
Q5502
HN1B01FU-T S10 DRIVE
Q5504
HN1B01FU-T S10 DRIVE
Q5580
HN1B01FU-T S10 DRIVE
Q5505
2SC4738 BUFF
Q5506
2SA1762 BUFF
Q5507
2SC4738 BUFF
Q5508
2SA1762 BUFF
Q5509
2SC4738 BUFF
Q5510
2SA1762 BUFF
(R PS10)
(G PS10)
(B PS10)
V COM R
V COM G
V COM B
(FROM P4)
(FROM P1)
C (5/5) (SAMPLE HOLD)

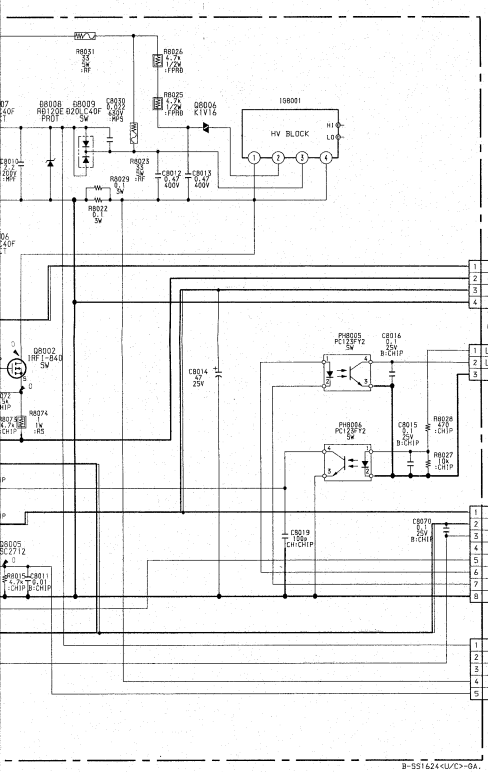
C (5/5) BOARD IC5511-IC5513 μPD74HC4066AG

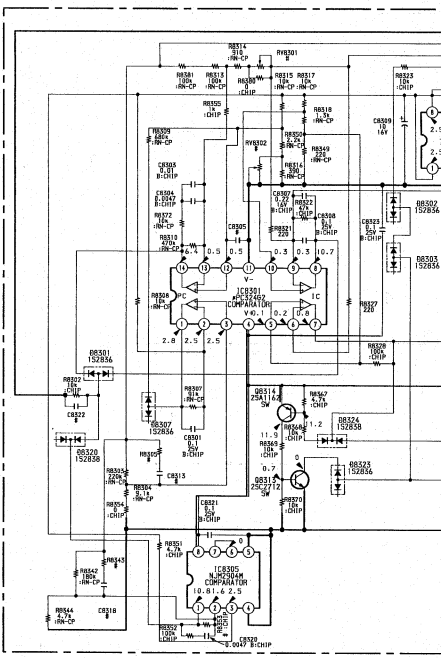


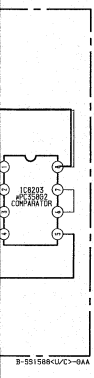
C (5/5) BOARD IC5514 TC4W66FU



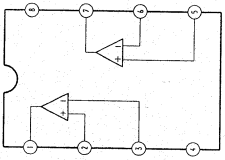

TO GB BOARD CN7004
CN8003
VH-B
CN8002
VH-B
AC (N)
N.C
N.C
AC (L)
TO FB BOARD
CN9012
CN8001
B-TO-B
AC
N.C
N.C
GND 1
CNTL 100/200
RY ON
VCC 1
GND 1
TO GAA BOARD
CN8201
GA
(LAMP POWER SUPPLY)
*MARK LIST
US/CND/J MODEL
AEP MODEL
C8002 0.068 1.25kV 0.056 1.25kV
C8003 0.068 1.25kV 0.056 1.25kV
CN8004
B-10-B
TO GAC BOARD CN8401
GAA
(100/200 SW)
CN8201
B-10-B
TO GA BOARD CN8001
B-5515B8<1/C>-GAA

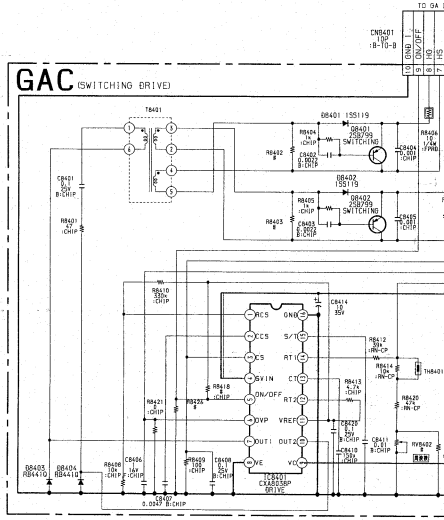


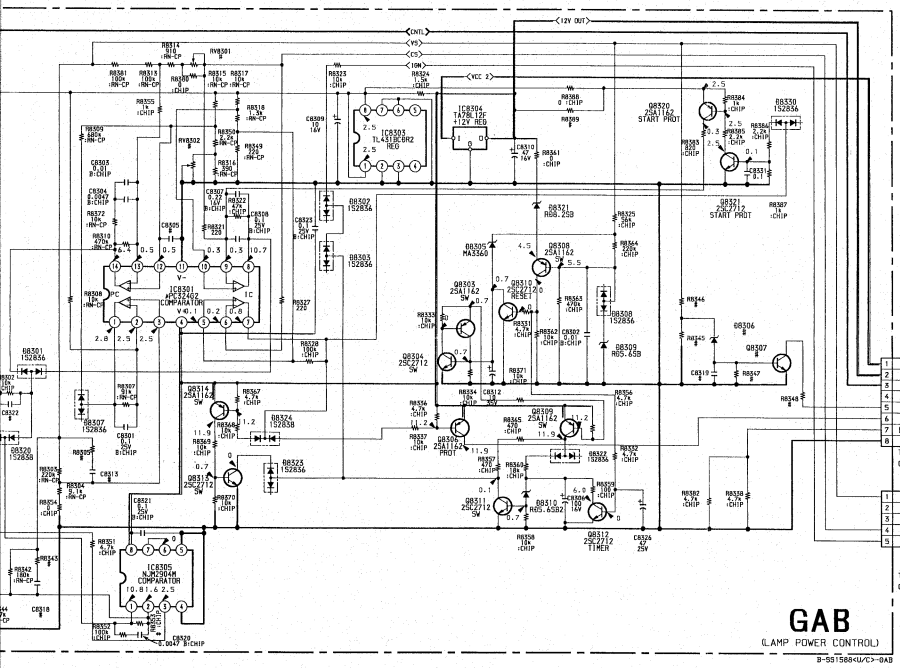


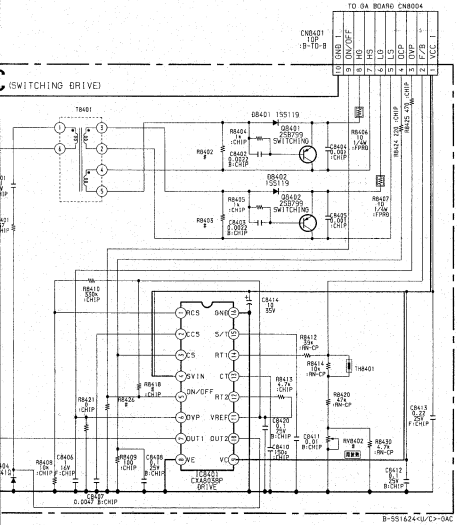


GAA BOARD IC8201 μPC393G2

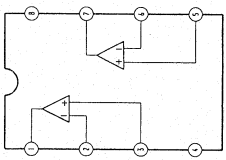






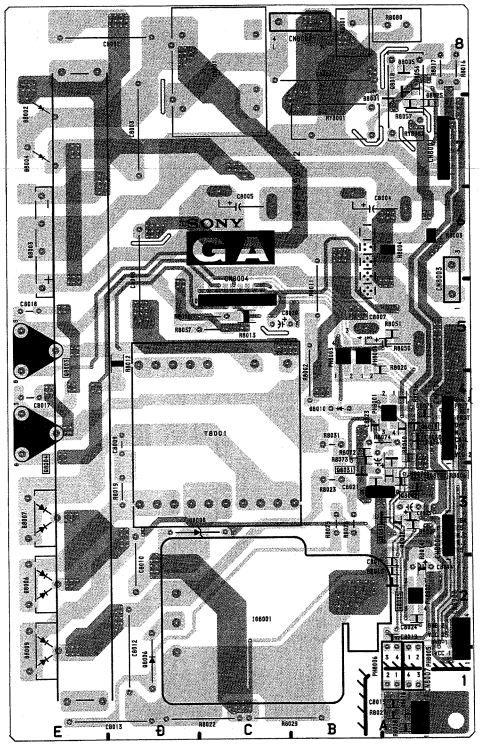


GAB BOARD IC8305 NJM2904M



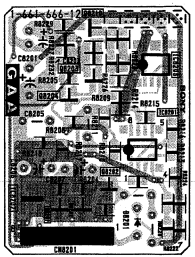
GA [LAMP POWER SUPPLY]

– GA BOARD –



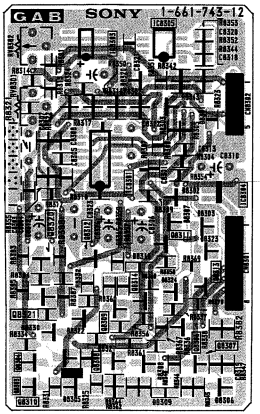
GAA [100/200 SW]

– GAA BOARD –



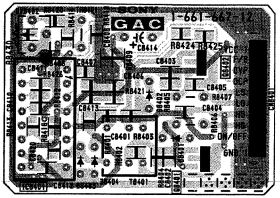
GAB [LAMP POWER CONTROL]

– GAB BOARD –

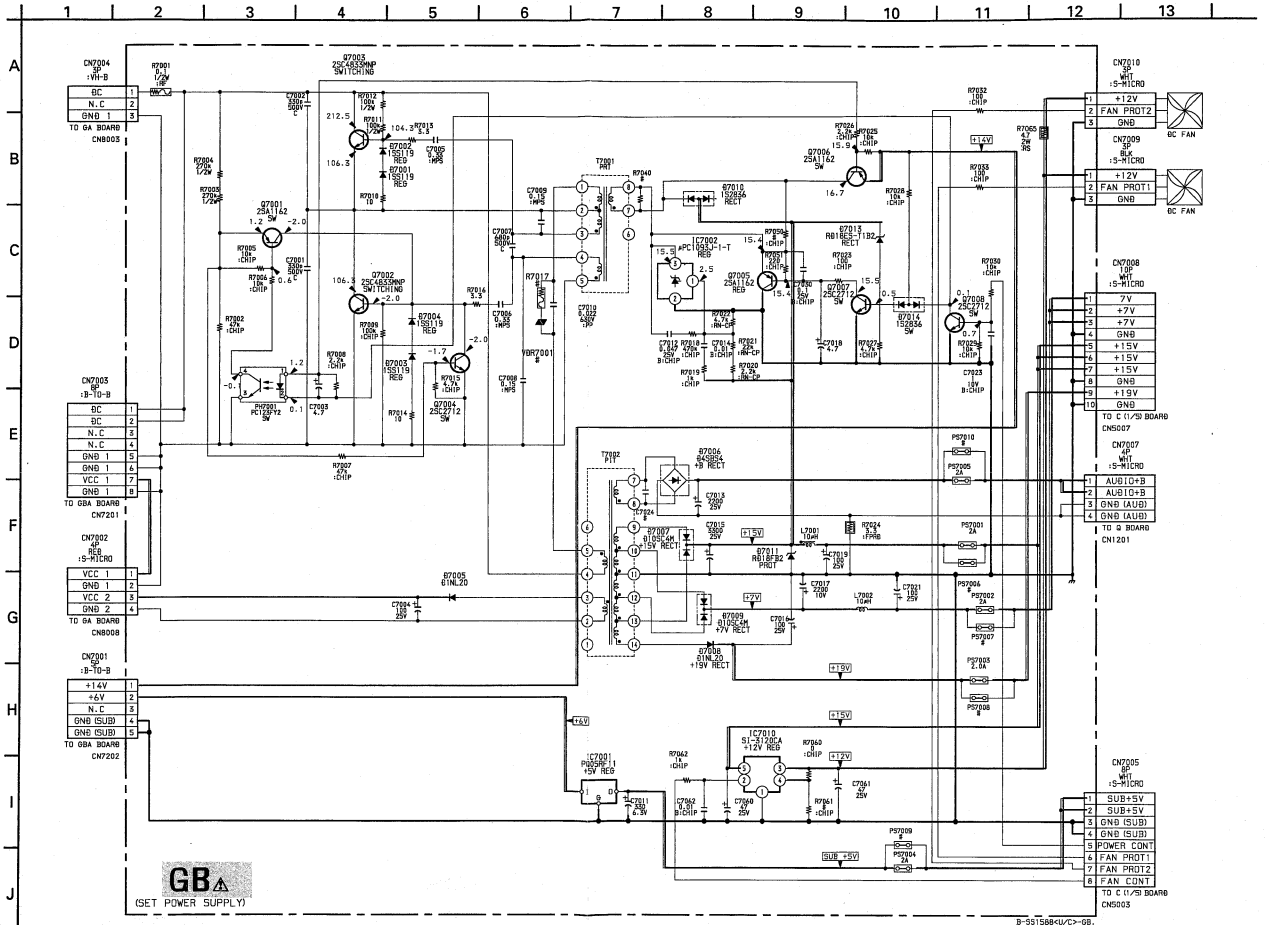


GAC [SWITCHING DRIVE]

– GAC BOARD –



• : Pattern from the side which enables seeing.
• : Pattern of the rear side.

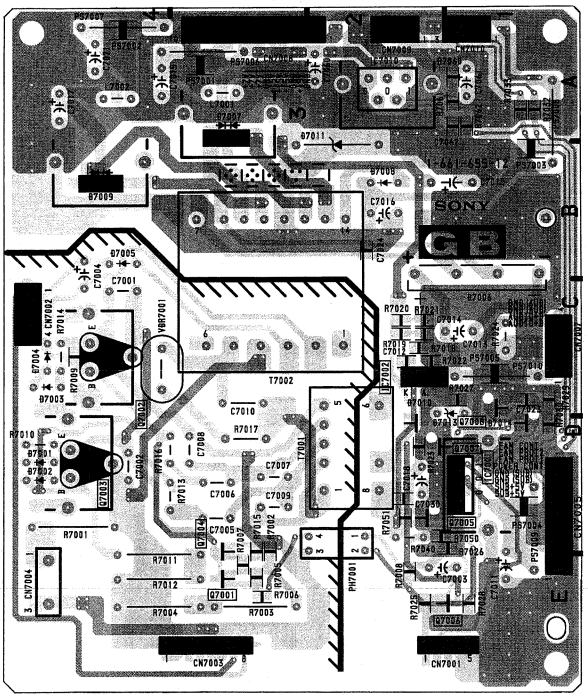


Schematic diagram

GB board ➡

GB [SET POWER SUPPLY]

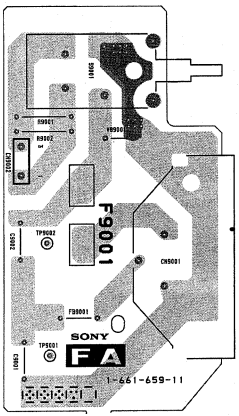
– GB BOARD –



- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

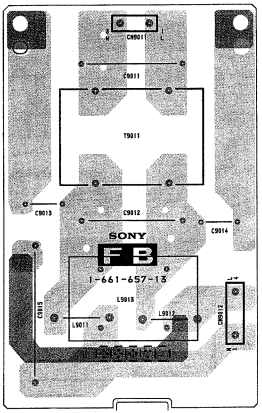
FA [AC INLET]

– FA BOARD –



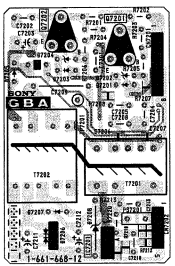
FB [FILTER]

– FB BOARD –

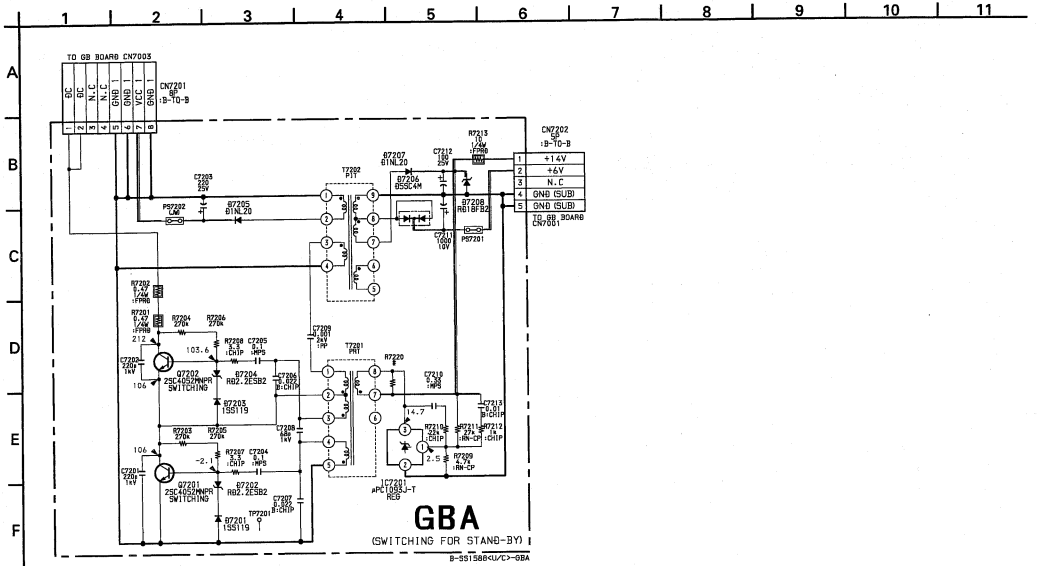


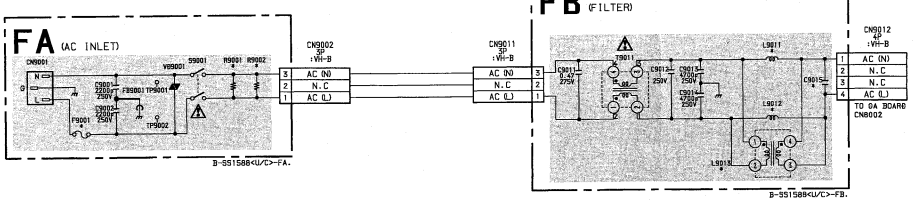
GBA [SWITCHING FOR STAND-BY]

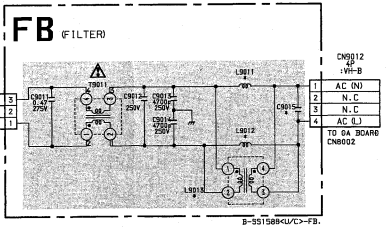
– GBA BOARD –



- : Pattern from the side which enables seeing.
- : Pattern of the rear side.







*MARK LIST

	US/CND/J MODEL	AEP MODEL
F9001	10A	6.3A
R9001	680K 1/2W ±RC	330K 1/2W ±RC
R9002	680K 1/2W ±RC	330K 1/2W ±RC

*MARK LIST

	AEP MODEL	US/CND/J MODEL
C9015	2.2 250V ±PP	#
L9011	#	150uH 141191511
L9012	#	150uH 141191511
L9013	5uH 141596711	#

#work:not mounted

4-5. SEMICONDUCTORS

BA10358F-E2
BR24CF16F-E2
LM358PS
LT1229CS8-E2
MM1112XFF
NJM2235M
NJM2240M
NJM2904M
SN75157PS
TC4W66FU
TC7W00FU
TC7W02FU
TL431BCDR2
µPC358G2
µPC393G2

8pin SOP

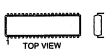
BA7657F-E2

24 Pin SOP

CXA1839Q-T6
CXA1855Q-T6

48Pin QFP

CXA2055P



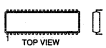
28Pin DIP

CXA2111R
CY7C136-55NC

CXA2504N

40Pin SOP

CXA8038P



16Pin DIP

CXD1176Q

32Pin SOP

CXD1178Q

CXD2024AQ
CXD2442Q

CXD2428Q

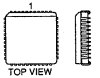
CXK1206AM

38Pin SOP

DS75365MX
HD14053BFP
MC14053BF-T2
MM1231XFFK
PC74HC123D-T
PC74HC4538D-T
TDA4665T-T

16Pin SOP

EPM7032LC44



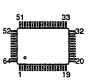
44Pin QFJ

GP1U28X

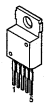
HD643337WA08F
HD643337YF

80pin QFP

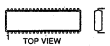
MB654842UPF
MB671469PF
MB90091APF



MC14052BF



MM1170BFB



8Pin DIP

M27C2001-1
M27C512-90

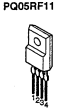
32pin QFJ

PC123F2
PC123FY2

PC74HC02D-T
PC74HC126D-T
PC74HC32D-T
PC74HC4066D-T
PC74HC74D-T
TC74VHC04F
TC74VHC14F
TLC2932IPW
µPC324G2
µPD74HC4066AG

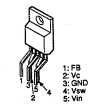
14Pin SOP

PQ05RF11

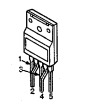


PQ05SZ1U
RH5VL51AA

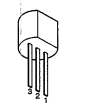
PQ20VZ1U
PQ20VZ5U



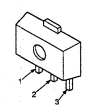
SI-3120C
SI-3120CA



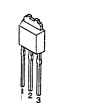
TA78L09F-TE12L
TA78L09F-T1



TA78L12F



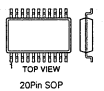
TA78M09F



TC7S04FU
TC7S08FU
TC7S32FU

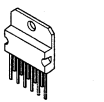
5pin CHIP

TC74AC541F
TDA7315D013TR



20Pin SOP

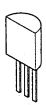
TDA2009A



TDA9141-N2C

32Pin DIP

µPC1093J-T
µPC1093J-1-T

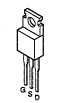


µPC319G2

DTA143TKA
DTA144EKA
DTC144EKA
2SA1162-G
2SA1162-YG
2SC2712-YG

HN1B01FU-TE85R

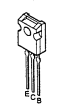
IRFI-840



2SA1213Y
2SB798-DL
2SB799-ML

2SC4052MNPR

2SC4833MNP



DAN202K
1SS184
1SS2838

DAP202K
1S2836

D1NL20
RD18FB2
RD120E-T1

D10SC4M
D20LC40F
D5SC4M

D4SBS4-F
D6SB60L

D8L60

ERA15-06
RB441Q
RB441QT
RD18ES-B2
RD2.2ES-B2
1SS119-25

K1V16TA
S2LA20F

MA3360-M
RD36M-B

RD10SB
RD12SB3
RD3.3SB2
RD4.7SB2
RD5.6SB
RD8.2SB
RD9.1SB2

RD5.6SB2

1SS123
1SS226

SEC1201C
SEC1401C
SEC1801C
SEC1901C

SEC1201C
SEC1401C
SEC1801C
SEC1901C

Schematic diagrams

← FA, FB, GBA boards

SECTION 5
EXPLODED VIEWS

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

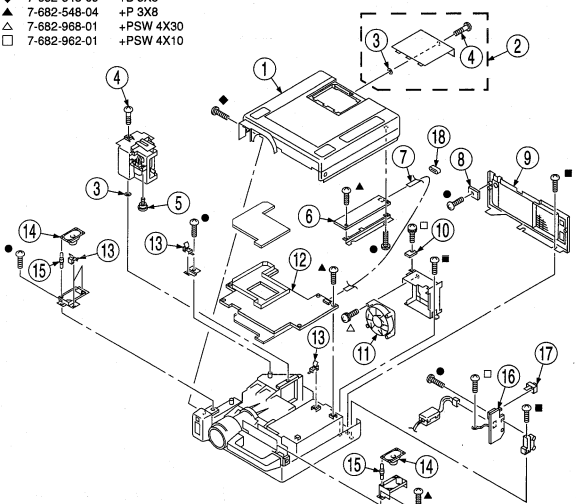
Les composants identifiés par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked * * * are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

5-1. CHASSIS 1

●	7-685-648-79	+BVTP 3X12
■	7-685-663-79	TAPPING SCREW (DIA 4X16)
◆	7-682-548-09	+B 3X8
▲	7-682-548-04	+P 3X8
△	7-682-968-01	+PSW 4X30
□	7-682-962-01	+PSW 4X10



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	* X-4034-744-1	HOOD ASSY	
2	* X-4034-743-1	LID ASSY, LAMP	3, 4
3	* 3-715-526-01	WASHER (M3)	
4	4-396-203-01	SCREW (+B M3X12), PREVENTION	
5	4-054-855-01	SCREW (+PWH M3X10), MACHINE	
6	* A-1375-166-A	H BOARD, COMPLETE	
7	1-900-222-35	CONNECTOR ASSY, FLAT 13P	
8	* A-1390-615-A	NR BOARD, COMPLETE	
9	* X-4034-739-1	PANEL ASSY, REAR	
10	* A-1373-566-A	U BOARD, COMPLETE	

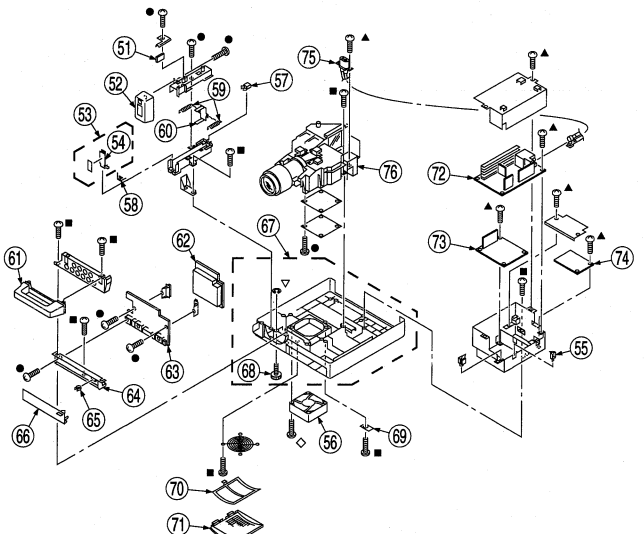
REF. NO.	PART NO.	DESCRIPTION	REMARK
11	1-698-819-11	FAN, DC	
12	* A-1335-089-A	C BOARD, COMPLETE	
13	* 3-696-440-11	HOLDER (B), PC BOARD	
14	1-505-398-11	SPEAKER (7X4CM)	
15	4-058-685-01	DAMPER	
16	* A-1501-067-A	FA ASSY (S500E/S500M)	
	* A-1501-066-A	FA ASSY (S500U)	
17	4-054-883-11	BUTTON, POWER	
18	1-543-936-11	CORE (FPC)	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

5-2. CHASSIS 2

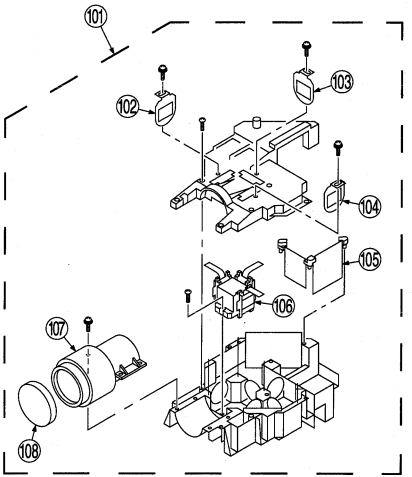
- ● 7-685-648-79 +BVTP 3X12
- ■ 7-685-663-79 TAPPING SCREW (DIA 4X16)
- ▲ 7-682-548-04 +P 3X8
- ◇ 7-685-168-11 +PTP 4X40
- ▽ 7-624-109-04 STOP RING 5.0 TYPE-E



REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* A-1390-614-A	NF BOARD, COMPLETE	
52	* X-4033-899-1	CAP ASSY, FRONT	
53	* X-4033-898-1	LID ASSY, RMC BOX	
54	* 4-054-880-01	LID, RMC BOX	
55	* 4-316-015-00	HOLDER, WIRE	
56	1-698-818-11	FAN, DC	
57	4-047-464-01	CATCHER, PUSH	
58	* 4-054-847-01	SPRING (A), RMC BOX	
59	* 4-054-867-01	SPRING (B), RMC BOX	
60	* 4-054-876-01	SLIDER, RMC BOX	
61	* 4-054-900-11	HANDLE	
62	* A-1135-914-A	B BOARD, COMPLETE	
63	* A-1275-136-A	Q BOARD, COMPLETE	
64	4-054-914-11	PANEL, CONNECTOR	
65	3-703-574-00	RETAINER, DOOR	

REF. NO.	PART NO.	DESCRIPTION	REMARK
66	* X-4034-741-1	LID ASSY, CONNECTOR	
67	* X-4034-742-1	BASE ASSY	68
68	4-054-854-11	ADJUSTOR	54
69	* A-1342-302-A	V BOARD, COMPLETE	
70	* 4-054-906-01	FILTER	
71	4-054-913-11	COVER, FILTER	
72	⚠* A-1316-287-A	GA BOARD, COMPLETE (S500E/S500M)	
	⚠* A-1316-289-A	GA BOARD, COMPLETE (S500U)	
73	⚠* A-1316-290-A	GB BOARD, COMPLETE	
74	* A-1241-273-A	FB BOARD, COMPLETE (S500E/S500M)	
	* A-1241-251-A	FB BOARD, COMPLETE (S500U)	
75	1-900-222-43	CONNECTOR ASSY, LAMP SOCKET	
76	* 1-758-105-11	OPTICAL UNIT	

5-3. OPTICAL UNIT



REF. NO.	PART NO.	DESCRIPTION	REMARK
101	* 1-758-105-11	OPTICAL UNIT	102~108
102	9-939-622-01	HOLDER, DEFLECTION PLATE (B)	
103	9-939-621-01	HOLDER, DEFLECTION PLATE (G)	
104	9-939-620-01	HOLDER, DEFLECTION PLATE (R)	
105	9-939-923-01	LATCH SET, FLYEYE LENS	
106	9-939-617-02	PRISM BLOCK	
107	9-939-616-01	PROJECTION LENS	
108	9-939-715-01	LENS CAP	

SECTION 6
ELECTRICAL PARTS LIST

B

NOTE:

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- The components identified by ☒ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked * * * are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1135-914-A	B BOARD, COMPLETE **********			
		<CAPACITOR>			
C3001	1-124-779-00	ELECT	10MF	20%	16V
C3002	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C3003	1-126-603-11	ELECT	4.7MF	20%	35V
C3004	1-126-206-11	ELECT	100MF	20%	6.3V
C3005	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3006	1-126-206-11	ELECT	100MF	20%	6.3V
C3007	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3010	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3100	1-104-852-11	TANTAL. CHIP	22MF	20%	10V
C3103	1-135-210-11	TANTAL. CHIP	4.7MF	20%	10V
C3104	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3105	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3106	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3107	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3108	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C3109	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3110	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3111	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3112	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C3113	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C3114	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C3130	1-104-852-11	TANTAL. CHIP	22MF	20%	10V
C3133	1-135-210-11	TANTAL. CHIP	4.7MF	20%	10V
C3134	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3135	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3136	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3137	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3138	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C3139	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3140	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3141	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3160	1-104-852-11	TANTAL. CHIP	22MF	20%	10V
C3163	1-135-210-11	TANTAL. CHIP	4.7MF	20%	10V
C3164	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3165	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3166	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3167	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3168	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C3169	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3170	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3171	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3280	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3281	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3282	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3283	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3300	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3301	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3302	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3303	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C3304	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C3305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3306	1-124-779-00	ELECT	10MF	20%	16V
C3380	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3381	1-126-206-11	ELECT	100MF	20%	6.3V
C3382	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3402	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3403	1-126-206-11	ELECT	100MF	20%	6.3V
C3404	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3406	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3407	1-124-779-00	ELECT	10MF	20%	16V
C3411	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3415	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3500	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3501	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3502	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3503	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3504	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3505	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3700	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3701	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3730	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3731	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3732	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C3760	1-104-913-11	TANTAL. CHIP	10MF	20%	16V
C3761	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3762	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
		<CONNECTOR>			
CN3001	1-778-373-11	PIN, CONNECTOR (PC BOARD)			
		<DIODE>			
D3301	8-719-914-43	DIODE DAN202K			
D3700	8-719-914-44	DIODE DAP202K			
D3730	8-719-914-44	DIODE DAP202K			
D3760	8-719-914-44	DIODE DAP202K			
		<FERRITE BEAD>			
FB3100	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB3101	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB3130	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB3131	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB3160	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB3161	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB3381	1-412-364-11	INDUCTOR 0UH			
FB3402	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB3403	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB3500	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB3501	1-414-234-11	INDUCTOR, FERRITE BEAD			

B

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FILTER>	
FL3000	1-233-512-21	FILTER, EMI	
FL3001	1-239-400-11	FILTER, CHIP EMI	
FL3002	1-239-400-11	FILTER, CHIP EMI	
FL3003	1-239-400-11	FILTER, CHIP EMI	
FL3004	1-233-512-21	FILTER, EMI	
FL3005	1-233-512-21	FILTER, EMI	
FL3006	1-239-400-11	FILTER, CHIP EMI	
FL3007	1-239-400-11	FILTER, CHIP EMI	
FL3008	1-239-400-11	FILTER, CHIP EMI	
FL3009	1-239-400-11	FILTER, CHIP EMI	
FL3010	1-233-512-21	FILTER, EMI	
FL3011	1-233-512-21	FILTER, EMI	
FL3012	1-233-512-21	FILTER, EMI	
FL3013	1-239-400-11	FILTER, CHIP EMI	
FL3014	1-239-400-11	FILTER, CHIP EMI	
FL3015	1-239-400-11	FILTER, CHIP EMI	
FL3100	1-239-538-21	FILTER, LOW PASS	
FL3130	1-239-540-21	FILTER, LOW PASS	
FL3160	1-239-540-21	FILTER, LOW PASS	
FL3381	1-239-558-11	FILTER, CHIP EMI	
FL3600	1-239-400-11	FILTER, CHIP EMI	
FL3700	1-239-538-21	FILTER, LOW PASS	
FL3701	1-239-538-21	FILTER, LOW PASS	
FL3702	1-233-430-11	FILTER, LOW PASS	
		<IC>	
IC3000	8-759-186-30	IC TC74VHC14F	
IC3001	8-759-259-77	IC PQ20VZ5U	
IC3100	8-752-337-04	IC CXD1176Q	
IC3130	8-752-337-04	IC CXD1176Q	
IC3160	8-752-337-04	IC CXD1176Q	
IC3280	8-752-340-75	IC CXK1206AM	
IC3281	8-752-340-75	IC CXK1206AM	
IC3282	8-752-340-75	IC CXK1206AM	
IC3283	8-752-340-75	IC CXK1206AM	
IC3300	8-752-386-46	IC CXD2448Q	
IC3301	8-759-081-44	IC TC74VHC04F	
IC3401	8-759-295-09	IC TLC2932IPW	
IC3403	8-759-081-44	IC TC74VHC04F	
IC3500	8-752-338-46	IC CXD1178Q	
		<COIL>	
L3401	1-410-393-11	INDUCTOR CHIP 100UH	
		<FILTER>	
LF3004	1-239-466-21	FILTER, EMI	
LF3005	1-239-466-21	FILTER, EMI	
LF3020	1-239-466-21	FILTER, EMI	
LF3380	1-239-466-21	FILTER, EMI	
		<TRANSISTOR>	
Q3001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3100	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q3101	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3130	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q3131	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3160	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q3161	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3700	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q3701	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q3702	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q3703	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3704	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3705	8-729-216-22	TRANSISTOR 2SA1162-G	

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R3000	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3001	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3002	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3003	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3004	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3005	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3006	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3007	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3008	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3009	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3010	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3011	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3012	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3013	1-216-049-91	METAL GLAZE 1K	5%	1/10W	
R3014	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	
R3015	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3016	1-216-687-11	METAL CHIP 33K	0.50%	1/10W	
R3017	1-216-656-11	METAL CHIP 1.6K	0.50%	1/10W	
R3018	1-216-644-11	METAL CHIP 510	0.50%	1/10W	
R3019	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3100	1-216-081-00	METAL GLAZE 22K	5%	1/10W	
R3101	1-216-085-00	METAL GLAZE 33K	5%	1/10W	
R3103	1-216-035-00	METAL GLAZE 270	5%	1/10W	
R3104	1-216-031-00	METAL GLAZE 180	5%	1/10W	
R3105	1-216-055-00	METAL GLAZE 1.8K	5%	1/10W	
R3107	1-216-049-91	METAL GLAZE 1K	5%	1/10W	
R3108	1-216-023-00	METAL GLAZE 82	5%	1/10W	
R3109	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3110	1-216-089-91	METAL GLAZE 47K	5%	1/10W	
R3111	1-216-041-00	METAL GLAZE 470	5%	1/10W	
R3130	1-216-081-00	METAL GLAZE 22K	5%	1/10W	
R3131	1-216-085-00	METAL GLAZE 33K	5%	1/10W	
R3133	1-216-035-00	METAL GLAZE 270	5%	1/10W	
R3134	1-216-031-00	METAL GLAZE 180	5%	1/10W	
R3135	1-216-055-00	METAL GLAZE 1.8K	5%	1/10W	
R3137	1-216-049-91	METAL GLAZE 1K	5%	1/10W	
R3138	1-216-023-00	METAL GLAZE 82	5%	1/10W	
R3139	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3140	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3160	1-216-081-00	METAL GLAZE 22K	5%	1/10W	
R3161	1-216-085-00	METAL GLAZE 33K	5%	1/10W	
R3163	1-216-035-00	METAL GLAZE 270	5%	1/10W	
R3164	1-216-031-00	METAL GLAZE 180	5%	1/10W	
R3165	1-216-055-00	METAL GLAZE 1.8K	5%	1/10W	
R3167	1-216-049-91	METAL GLAZE 1K	5%	1/10W	
R3168	1-216-023-00	METAL GLAZE 82	5%	1/10W	
R3169	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3170	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3300	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3301	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3302	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3304	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3305	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3306	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3307	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3308	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3309	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R3334	1-216-295-91	CONDUCTOR, CHIP			
R3335	1-216-295-91	CONDUCTOR, CHIP			
R3350	1-216-001-00	METAL GLAZE 10	5%	1/10W	
R3351	1-216-001-00	METAL GLAZE 10	5%	1/10W	
R3382	1-216-121-91	METAL GLAZE 1M	5%	1/10W	
R3383	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R3384	1-216-001-00	METAL GLAZE 10	5%	1/10W	
R3385	1-216-001-00	METAL GLAZE 10	5%	1/10W	
R3386	1-216-001-00	METAL GLAZE 10	5%	1/10W	
R3387	1-216-001-00	METAL GLAZE 10	5%	1/10W	

B FA FB Q

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
R3390	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3401	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R3404	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R3405	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3406	1-216-025-91	METAL GLAZE 100 5%	1/10W
R3407	1-216-025-91	METAL GLAZE 100 5%	1/10W
R3409	1-216-025-91	METAL GLAZE 100 5%	1/10W
R3416	1-216-295-91	CONDUCTOR, CHIP	
R3418	1-216-009-00	METAL GLAZE 22 5%	1/10W
R3419	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3501	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R3502	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3503	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R3700	1-216-001-00	METAL GLAZE 10 5%	1/10W
R3701	1-216-001-00	METAL GLAZE 10 5%	1/10W
R3702	1-216-001-00	METAL GLAZE 10 5%	1/10W
R3703	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3704	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3705	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3709	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R3710	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
R3711	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R3712	1-216-031-00	METAL GLAZE 180 5%	1/10W
R3713	1-216-031-00	METAL GLAZE 180 5%	1/10W
R3714	1-216-037-00	METAL GLAZE 330 5%	1/10W
R3715	1-216-037-00	METAL GLAZE 330 5%	1/10W
R3716	1-216-037-00	METAL GLAZE 330 5%	1/10W
R3717	1-216-037-00	METAL GLAZE 330 5%	1/10W
R3721	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3722	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3723	1-216-033-00	METAL GLAZE 220 5%	1/10W

<RESISTOR BLOCK>

RB3160	1-236-908-11	RES, CHIP NETWORK 10K
RB3161	1-236-908-11	RES, CHIP NETWORK 10K
RB3280	1-236-908-11	RES, CHIP NETWORK 10K
RB3281	1-236-908-11	RES, CHIP NETWORK 10K
RB3282	1-236-908-11	RES, CHIP NETWORK 10K
RB3283	1-236-908-11	RES, CHIP NETWORK 10K
RB3284	1-236-908-11	RES, CHIP NETWORK 10K
RB3285	1-236-908-11	RES, CHIP NETWORK 10K
RB3286	1-236-908-11	RES, CHIP NETWORK 10K
RB3287	1-236-908-11	RES, CHIP NETWORK 10K

<CRYSTAL>

X3380	1-760-778-21	VIBRATOR, CRYSTAL

****

* A-1501-066-A FA ASSY (VPL-S500U)
****

* A-1501-067-A FA ASSY (VPL-S500E/S500M)
****

* 4-374-846-01 COVER, CAPACITOR, CAP TYPE

<CAPACITOR>

C9001	⚠1-113-907-51	CERAMIC	0.0022MF	20%	250V
C9002	⚠1-113-907-51	CERAMIC	0.0022MF	20%	250V

<CONNECTOR>

CN9001	⚠1-251-227-11	INLET, AC
CN9002	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P

REF. NO.	PART NO.	DESCRIPTION	REMARK

<FUSE>

F9001	⚠1-533-623-11	FUSE, GLASS CYLINDERICAL (S500U)	
F9001	⚠1-576-233-11	FUSE (H.B.C.) (S500E/S500M)	
	1-533-189-11	HOLDER, FUSE : F9001	

<FERRITE BEAD>

FB9001	⚠1-410-396-71	INDUCTOR 0.45UH	

<RESISTOR>

R9001	⚠1-202-880-91	SOLID	330K	20%	1/2W (S500E/S500M)
R9001	⚠1-202-883-91	SOLID	680K	20%	1/2W (S500U)
R9002	⚠1-202-880-91	SOLID	330K	20%	1/2W (S500E/S500M)
R9002	⚠1-202-883-91	SOLID	680K	20%	1/2W (S500U)

<SWITCH>

S9001	⚠1-571-433-31	SWITCH, PUSH (AC POWER)

<VARISTOR>

VD9001	⚠1-801-073-41	VARISTOR ERZV14D471

****

* A-1241-251-A FB BOARD, COMPLETE (VPL-S500U)
****

* A-1241-273-A FB BOARD, COMPLETE
****
(VPL-S500E/S500M)

<CAPACITOR>

C9011	⚠1-113-511-11	FILM	0.47MF	20%	275V
C9012	⚠1-107-533-51	FILM	1MF	20%	250V
C9013	⚠1-113-912-51	CERAMIC	0.0047MF	20%	250V
C9014	⚠1-113-912-51	CERAMIC	0.0047MF	20%	250V
C9015	⚠1-117-439-21	FILM	2.2MF	20%	275V (S500E/S500M)

<CONNECTOR>

CN9011	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P
CN9012	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P

<COIL>

L9011	⚠1-411-915-11	COIL, CHOKE 150UH (S500U)	
L9012	⚠1-411-915-11	COIL, CHOKE 150UH (S500U)	
L9013	⚠1-415-967-11	COIL, CHOKE 5mH (S500E/S500M)	

<TRANSFORMER>

T9011	⚠1-426-635-11	TRANSFORMER, LINE FILTER	

****

* A-1275-136-A Q BOARD, COMPLETE
****

<CAPACITOR>

C1001	1-126-204-11	ELECT	47MF	20%	16V

Q

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1002	1-126-204-11	ELECT	47MF	20%	16V
C1003	1-126-204-11	ELECT	47MF	20%	16V
C1004	1-126-193-11	ELECT	1MF	20%	50V
C1005	1-126-193-11	ELECT	1MF	20%	50V
C1006	1-126-400-11	ELECT	22MF	20%	35V
C1007	1-126-400-11	ELECT	22MF	20%	35V
C1008	1-126-204-11	ELECT	47MF	20%	16V
C1009	1-126-204-11	ELECT	47MF	20%	16V
C1010	1-126-204-11	ELECT	47MF	20%	16V
C1011	1-126-193-11	ELECT	1MF	20%	50V
C1012	1-126-193-11	ELECT	1MF	20%	50V
C1013	1-128-416-11	ELECT CHIP	100MF	20%	16V
C1014	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1015	1-126-191-11	ELECT	0.47MF	20%	50V
C1016	1-126-191-11	ELECT	0.47MF	20%	50V
C1101	1-109-994-11	CERAMIC CHIP	2.2MF	10%	10V
C1102	1-124-779-00	ELECT	10MF	20%	16V
C1103	1-124-779-00	ELECT	10MF	20%	16V
C1104	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1105	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1107	1-109-994-11	CERAMIC CHIP	2.2MF	10%	10V
C1201	1-128-416-11	ELECT CHIP	100MF	20%	16V
C1202	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1203	1-126-400-11	ELECT	22MF	20%	35V
C1204	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C1205	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C1206	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1207	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1208	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1211	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1212	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1213	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1214	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1215	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1216	1-126-601-11	ELECT	2.2MF	20%	50V
C1217	1-128-401-11	ELECT	100MF	20%	25V
C1218	1-128-401-11	ELECT	100MF	20%	25V
C1219	1-128-401-11	ELECT	100MF	20%	25V
C1220	1-126-601-11	ELECT	2.2MF	20%	50V
C1223	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1224	1-126-941-11	ELECT	470MF	20%	25V
C1225	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1226	1-126-941-11	ELECT	470MF	20%	25V
C1227	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1228	1-128-401-11	ELECT	100MF	20%	25V
C1229	1-124-779-00	ELECT	10MF	20%	16V
C1230	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1231	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1232	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1233	1-126-603-11	ELECT	4.7MF	20%	35V
C1234	1-126-603-11	ELECT	4.7MF	20%	35V
C1235	1-126-601-11	ELECT	2.2MF	20%	50V
C1301	1-124-779-00	ELECT	10MF	20%	16V
C1303	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1305	1-126-393-11	ELECT	33MF	20%	10V
C1306	1-126-393-11	ELECT	33MF	20%	10V
C1307	1-126-393-11	ELECT	33MF	20%	10V
C1308	1-126-393-11	ELECT	33MF	20%	10V
C1309	1-126-393-11	ELECT	33MF	20%	10V
C1310	1-126-204-11	ELECT	47MF	20%	16V
C1311	1-126-393-11	ELECT	33MF	20%	10V
C1312	1-126-393-11	ELECT	33MF	20%	10V
C1314	1-126-393-11	ELECT	33MF	20%	10V
C1315	1-126-393-11	ELECT	33MF	20%	10V
C1401	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1402	1-128-416-11	ELECT CHIP	100MF	20%	16V
C2001	1-128-416-11	ELECT CHIP	100MF	20%	16V
C2002	1-128-416-11	ELECT CHIP	100MF	20%	16V
C2003	1-128-416-11	ELECT CHIP	100MF	20%	16V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C2101	1-126-204-11	ELECT	47MF	20%	16V
C2117	1-126-204-11	ELECT	47MF	20%	16V
C2118	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2121	1-126-204-11	ELECT	47MF	20%	16V
C2122	1-126-204-11	ELECT	47MF	20%	16V
C2123	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2124	1-126-204-11	ELECT	47MF	20%	16V
C2125	1-124-779-00	ELECT	10MF	20%	16V
C2126	1-124-779-00	ELECT	10MF	20%	16V
C2127	1-124-779-00	ELECT	10MF	20%	16V
C2128	1-128-499-11	ELECT	220MF	20%	16V
C2129	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2301	1-124-779-00	ELECT	10MF	20%	16V
C2303	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C2304	1-126-204-11	ELECT	47MF	20%	16V
C2306	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2309	1-124-779-00	ELECT	10MF	20%	16V
C2311	1-126-204-11	ELECT	47MF	20%	16V
C2312	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2313	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2314	1-126-603-11	ELECT	4.7MF	20%	35V
C2315	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2316	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C2317	1-124-779-00	ELECT	10MF	20%	16V
C2318	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2319	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V
C2320	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2322	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2323	1-128-416-11	ELECT CHIP	100MF	20%	16V
C2324	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2325	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2326	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2327	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2329	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2330	1-127-531-11	ELECT(SOLID)	33MF	20%	20V
C2331	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2332	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2333	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2334	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2335	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2336	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C2337	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2338	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2501	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2502	1-126-204-11	ELECT	47MF	20%	16V
C2503	1-135-155-21	TANTAL. CHIP	4.7MF	20%	16V
C2504	1-126-204-11	ELECT	47MF	20%	16V
C2505	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2506	1-135-155-21	TANTAL. CHIP	4.7MF	20%	16V
C2507	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2508	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2509	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2510	1-126-204-11	ELECT	47MF	20%	16V
C2511	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V
C2512	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V
C2513	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2514	1-135-155-21	TANTAL. CHIP	4.7MF	20%	16V
C2515	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C2516	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2517	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2518	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2519	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C2520	1-164-346-11	CERAMIC CHIP	1MF		16V
C2521	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2522	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C2523	1-135-155-21	TANTAL. CHIP	4.7MF	20%	16V
C2524	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C2525	1-126-941-11	ELECT	470MF	20%	25V
C2526	1-163-224-11	CERAMIC CHIP	7PF	0.25PF	50V

Q

REF. NO.	PART NO.	DESCRIPTION			REMARK
C2527	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2528	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2529	1-164-182-11	CERAMIC CHIP 0.0033MF	10%	50V	
C2530	1-126-191-11	ELECT 0.47MF	20%	50V	
C2532	1-126-204-11	ELECT 47MF	20%	16V	
C2533	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2535	1-126-204-11	ELECT 47MF	20%	16V	
C2536	1-163-099-00	CERAMIC CHIP 18PF	5%	50V	
C2538	1-124-779-00	ELECT 10MF	20%	16V	
C2539	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2540	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2541	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2542	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C2545	1-163-224-11	CERAMIC CHIP 7PF	0.25PF	50V	
C2547	1-163-237-11	CERAMIC CHIP 27PF	5%	50V	
		<CONNECTOR>			
CN1001	1-535-741-11	TERMINAL, S			
CN1002	1-537-947-12	TERMINAL BOARD ASST, I/O			
CN1201	*1-564-507-11	PLUG, CONNECTOR 4P			
CN1202	*1-564-507-11	PLUG, CONNECTOR 4P			
CN2003	1-778-373-11	PIN, CONNECTOR (PC BOARD)			
CN2004	1-778-373-11	PIN, CONNECTOR (PC BOARD)			
		<DIODE>			
D1001	8-719-158-37	DIODE RD9.1SB2			
D1002	8-719-158-37	DIODE RD9.1SB2			
D1003	8-719-158-37	DIODE RD9.1SB2			
D1004	8-719-158-37	DIODE RD9.1SB2			
D1005	8-719-158-37	DIODE RD9.1SB2			
D1006	8-719-914-43	DIODE DAN202K			
D1007	8-719-914-44	DIODE DAP202K			
D1008	8-719-158-37	DIODE RD9.1SB2			
D1009	8-719-158-37	DIODE RD9.1SB2			
D1010	8-719-158-37	DIODE RD9.1SB2			
D1013	8-719-158-37	DIODE RD9.1SB2			
D1014	8-719-158-37	DIODE RD9.1SB2			
D1015	8-719-158-37	DIODE RD9.1SB2			
D1016	8-719-158-37	DIODE RD9.1SB2			
D1020	8-719-158-37	DIODE RD9.1SB2			
D1101	8-719-158-37	DIODE RD9.1SB2			
D1102	8-719-914-43	DIODE DAN202K			
D1103	8-719-914-44	DIODE DAP202K			
D1201	8-719-914-43	DIODE DAN202K			
D1202	8-719-914-43	DIODE DAN202K			
D1203	8-719-036-76	DIODE RD3.3SB2-T1			
D2101	8-719-914-43	DIODE DAN202K			
D2102	8-719-158-15	DIODE RD5.6SB			
D2301	8-719-914-43	DIODE DAN202K			
D2501	8-719-914-43	DIODE DAN202K			
D2502	8-719-914-44	DIODE DAP202K			
D2503	8-719-914-44	DIODE DAP202K			
		<FILTER>			
FL2301	1-239-397-11	FILTER, LOW PASS			
FL2302	1-239-397-11	FILTER, LOW PASS			
FL2303	1-239-397-11	FILTER, LOW PASS			
		<IC>			
IC1101	8-759-285-61	IC PC74HC123D-T			
IC1201	8-759-273-12	IC TDA7315D013TR			
IC1202	8-759-980-43	IC TDA2009A			
	7-682-548-04	SCREW +P 3X8 ; IC1202			
IC1203	8-759-983-69	IC LM358PS			
IC1301	8-759-297-78	IC MM1231XFFK			

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC2101	8-752-068-45	IC CXA1855Q	
IC2102	8-759-710-29	IC NJM2235M	
IC2302	8-759-711-62	IC NJM2240M	
IC2303	8-752-372-78	IC CXD2024AQ	
IC2501	8-759-335-58	IC MM1112XFF	
IC2502	8-759-295-47	IC TDA9141-N2C	
IC2503	8-759-288-85	IC TDA4665T-T	
IC2504	8-759-335-58	IC MM1112XFF	
		<JACK>	
J1001	1-778-402-11	CONNECTOR, BNC	
J1002	1-565-838-11	JACK BLOCK, PIN 2P	
J1004	1-563-935-11	JACK, STEREO HEADPHONE	
J1005	1-565-838-11	JACK BLOCK, PIN 2P	
J1101	1-563-935-11	JACK, STEREO HEADPHONE	
		<COIL>	
L1001	1-412-363-21	INDUCTOR 0UH	
L1002	1-412-363-21	INDUCTOR 0UH	
L1003	1-412-363-21	INDUCTOR 0UH	
L1004	1-412-363-21	INDUCTOR 0UH	
L1005	1-412-363-21	INDUCTOR 0UH	
L1006	1-412-363-21	INDUCTOR 0UH	
L1007	1-412-363-21	INDUCTOR 0UH	
L1008	1-412-363-21	INDUCTOR 0UH	
L1009	1-412-363-21	INDUCTOR 0UH	
L1010	1-412-363-21	INDUCTOR 0UH	
L1011	1-412-363-21	INDUCTOR 0UH	
L1012	1-412-363-21	INDUCTOR 0UH	
L1013	1-412-363-21	INDUCTOR 0UH	
L1014	1-412-363-21	INDUCTOR 0UH	
L1101	1-412-363-21	INDUCTOR 0UH	
L1102	1-412-363-21	INDUCTOR 0UH	
L1103	1-412-363-21	INDUCTOR 0UH	
L2301	1-410-470-11	INDUCTOR 10UH	
L2304	1-414-235-11	INDUCTOR, FERRITE BEAD	
L2305	1-414-235-11	INDUCTOR, FERRITE BEAD	
L2306	1-414-235-11	INDUCTOR, FERRITE BEAD	
L2501	1-414-235-11	INDUCTOR, FERRITE BEAD	
L2502	1-414-235-11	INDUCTOR, FERRITE BEAD	
L2503	1-414-235-11	INDUCTOR, FERRITE BEAD	
L2504	1-414-235-11	INDUCTOR, FERRITE BEAD	
L2507	1-408-417-00	INDUCTOR 47UH	
		<TRANSISTOR>	
Q1001	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1002	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1003	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1004	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1005	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1101	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1103	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1105	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q1106	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q1201	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1202	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1203	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1204	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1205	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1301	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1302	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1303	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1304	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1305	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1306	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1307	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1308	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q1309	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2101	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2102	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2103	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2104	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2105	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2106	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2107	8-729-027-35	TRANSISTOR DTA143TKA-T146	
Q2108	8-729-027-35	TRANSISTOR DTA143TKA-T146	
Q2109	8-729-027-35	TRANSISTOR DTA143TKA-T146	
Q2301	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2302	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2303	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2304	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2305	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q2306	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2307	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2308	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2309	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q2310	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2311	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2312	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2313	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2314	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2315	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2316	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q2317	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2501	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q2502	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q2503	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2504	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2505	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q2506	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2507	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2508	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2510	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2512	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2513	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2514	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2515	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2516	8-729-027-59	TRANSISTOR DTC144EKA-T146	

<RESISTOR>

R1001	1-216-022-00	METAL GLAZE 75	5%	1/10W
R1002	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R1003	1-216-022-00	METAL GLAZE 75	5%	1/10W
R1004	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R1005	1-216-022-00	METAL GLAZE 75	5%	1/10W
R1006	1-216-295-91	CONDUCTOR, CHIP		
R1007	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R1008	1-216-295-91	CONDUCTOR, CHIP		
R1009	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R1011	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1012	1-216-025-91	METAL GLAZE 100	5%	1/10W
R1014	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R1015	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R1016	1-216-025-91	METAL GLAZE 100	5%	1/10W
R1017	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1018	1-216-017-91	METAL GLAZE 47	5%	1/10W
R1020	1-216-083-00	METAL GLAZE 27K	5%	1/10W
R1021	1-216-045-00	METAL GLAZE 680	5%	1/10W
R1022	1-216-025-91	METAL GLAZE 100	5%	1/10W
R1023	1-216-295-91	CONDUCTOR, CHIP		
R1024	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R1025	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R1026	1-216-041-00	METAL GLAZE 470	5%	1/10W
R1027	1-216-017-91	METAL GLAZE 47	5%	1/10W
R1028	1-216-295-91	CONDUCTOR, CHIP		
R1029	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R1030	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R1031	1-216-041-00	METAL GLAZE 470	5%	1/10W
R1032	1-216-017-91	METAL GLAZE 47	5%	1/10W
R1033	1-216-295-91	CONDUCTOR, CHIP		
R1034	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R1035	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R1036	1-216-041-00	METAL GLAZE 470	5%	1/10W
R1037	1-216-017-91	METAL GLAZE 47	5%	1/10W
R1038	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R1040	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R1042	1-216-022-00	METAL GLAZE 75	5%	1/10W
R1043	1-216-022-00	METAL GLAZE 75	5%	1/10W
R1044	1-216-022-00	METAL GLAZE 75	5%	1/10W
R1045	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R1046	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R1101	1-216-308-00	METAL GLAZE 4.7	5%	1/10W
R1102	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R1103	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R1104	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R1105	1-216-148-00	METAL GLAZE 8.2	5%	1/8W
R1106	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1107	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R1108	1-216-025-91	METAL GLAZE 100	5%	1/10W
R1109	1-216-025-91	METAL GLAZE 100	5%	1/10W
R1110	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1111	1-216-025-91	METAL GLAZE 100	5%	1/10W
R1112	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R1113	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R1201	1-216-025-91	METAL GLAZE 100	5%	1/10W
R1202	1-216-025-91	METAL GLAZE 100	5%	1/10W
R1203	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R1204	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R1205	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W
R1206	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W
R1207	1-216-041-00	METAL GLAZE 470	5%	1/10W
R1208	1-216-021-00	METAL GLAZE 68	5%	1/10W
R1209	1-216-021-00	METAL GLAZE 68	5%	1/10W
R1210	1-216-041-00	METAL GLAZE 470	5%	1/10W
R1211	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W
R1214	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W
R1217	1-249-385-11	CARBON 2.2	5%	1/4W F
R1218	1-249-385-11	CARBON 2.2	5%	1/4W F
R1219	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R1220	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R1221	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R1222	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R1223	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1226	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W
R1227	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W
R1228	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1229	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1230	1-216-025-91	METAL GLAZE 100	5%	1/10W
R1231	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R1232	1-216-025-91	METAL GLAZE 100	5%	1/10W
R1233	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R1234	1-216-075-00	METAL GLAZE 12K	5%	1/10W
R1235	1-216-075-00	METAL GLAZE 12K	5%	1/10W
R1236	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R1237	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R1238	1-216-041-00	METAL GLAZE 470	5%	1/10W
R1239	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R1240	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R1241	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R1242	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R1243	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R1301	1-216-017-91	METAL GLAZE 47	5%	1/10W

Q

REF. NO.	PART NO.	DESCRIPTION		REMARK
R1302	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R1303	1-216-656-11	METAL CHIP 1.6K	0.50%	1/10W
R1304	1-216-017-91	METAL GLAZE 47	5%	1/10W
R1305	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R1306	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R1307	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1308	1-216-043-91	METAL GLAZE 560	5%	1/10W
R1310	1-216-017-91	METAL GLAZE 47	5%	1/10W
R1311	1-216-656-11	METAL CHIP 1.6K	0.50%	1/10W
R1312	1-216-017-91	METAL GLAZE 47	5%	1/10W
R1313	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R1314	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1315	1-216-043-91	METAL GLAZE 560	5%	1/10W
R1317	1-216-017-91	METAL GLAZE 47	5%	1/10W
R1318	1-216-656-11	METAL CHIP 1.6K	0.50%	1/10W
R1319	1-216-017-91	METAL GLAZE 47	5%	1/10W
R1320	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R1321	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1322	1-216-043-91	METAL GLAZE 560	5%	1/10W
R1324	1-216-001-00	METAL GLAZE 10	5%	1/10W
R1325	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1326	1-216-001-00	METAL GLAZE 10	5%	1/10W
R1327	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1328	1-216-001-00	METAL GLAZE 10	5%	1/10W
R1329	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R1330	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R1331	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R1332	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R1333	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R1334	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R1335	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R2101	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R2102	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R2105	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2106	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R2107	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R2108	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R2109	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2110	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2111	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2112	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R2113	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R2114	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2115	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R2116	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2117	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2118	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R2119	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R2120	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R2121	1-216-667-11	METAL CHIP 4.7K	0.50%	1/10W
R2122	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2123	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2124	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2125	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2126	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2127	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2128	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R2129	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2130	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2131	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2132	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2133	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R2134	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2135	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R2136	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R2137	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R2138	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R2139	1-216-049-91	METAL GLAZE 1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION		REMARK
R2140	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R2141	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R2142	1-216-641-11	METAL CHIP 390	0.50%	1/10W
R2143	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2150	1-216-043-91	METAL GLAZE 560	5%	1/10W
R2151	1-216-043-91	METAL GLAZE 560	5%	1/10W
R2152	1-216-043-91	METAL GLAZE 560	5%	1/10W
R2301	1-216-017-91	METAL GLAZE 47	5%	1/10W
R2302	1-216-017-91	METAL GLAZE 47	5%	1/10W
R2308	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R2309	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2310	1-216-085-00	METAL GLAZE 33K	5%	1/10W
R2311	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R2312	1-216-051-00	METAL GLAZE 1.2K	5%	1/10W
R2313	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R2314	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R2319	1-216-043-91	METAL GLAZE 560	5%	1/10W
R2321	1-216-045-00	METAL GLAZE 680	5%	1/10W
R2322	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R2326	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R2328	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R2329	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R2330	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R2331	1-216-041-00	METAL GLAZE 470	5%	1/10W
R2333	1-216-055-00	METAL GLAZE 1.8K	5%	1/10W
R2335	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W
R2336	1-216-033-00	METAL GLAZE 220	5%	1/10W
R2337	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2338	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R2339	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R2340	1-216-037-00	METAL GLAZE 330	5%	1/10W
R2341	1-216-041-00	METAL GLAZE 470	5%	1/10W
R2343	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R2344	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2345	1-216-085-00	METAL GLAZE 33K	5%	1/10W
R2346	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R2347	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R2348	1-216-041-00	METAL GLAZE 470	5%	1/10W
R2349	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2350	1-216-045-00	METAL GLAZE 680	5%	1/10W
R2351	1-216-041-00	METAL GLAZE 470	5%	1/10W
R2352	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2353	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2354	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2355	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R2359	1-216-635-11	METAL CHIP 220	0.50%	1/10W
R2361	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R2362	1-216-067-00	METAL GLAZE 5.6K	5%	1/10W
R2363	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R2364	1-216-635-11	METAL CHIP 220	0.50%	1/10W
R2365	1-216-043-91	METAL GLAZE 560	5%	1/10W
R2366	1-216-055-00	METAL GLAZE 1.8K	5%	1/10W
R2367	1-216-657-11	METAL CHIP 1.8K	0.50%	1/10W
R2368	1-216-657-11	METAL CHIP 1.8K	0.50%	1/10W
R2369	1-216-661-11	METAL CHIP 2.7K	0.50%	1/10W
R2501	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R2502	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2503	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2504	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R2505	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R2506	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R2507	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2508	1-216-047-91	METAL GLAZE 820	5%	1/10W
R2509	1-216-651-11	METAL CHIP 1K	0.50%	1/10W
R2510	1-216-025-91	METAL GLAZE 100	5%	1/10W
R2511	1-216-095-00	METAL GLAZE 82K	5%	1/10W
R2512	1-216-047-91	METAL GLAZE 820	5%	1/10W
R2513	1-216-651-11	METAL CHIP 1K	0.50%	1/10W
R2514	1-216-077-00	METAL GLAZE 15K	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Q GA

REF. NO.	PART NO.	DESCRIPTION			REMARK
R2515	1-216-049-91	METAL GLAZE 1K	5%	1/10W	
R2516	1-216-049-91	METAL GLAZE 1K	5%	1/10W	
R2517	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2518	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2519	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2520	1-216-033-00	METAL GLAZE 220	5%	1/10W	
R2521	1-216-049-91	METAL GLAZE 1K	5%	1/10W	
R2522	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2523	1-216-049-91	METAL GLAZE 1K	5%	1/10W	
R2524	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2525	1-216-652-11	METAL CHIP 1.1K	0.50%	1/10W	
R2526	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2527	1-216-047-91	METAL GLAZE 820	5%	1/10W	
R2528	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2529	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2530	1-216-651-11	METAL CHIP 1K	0.50%	1/10W	
R2531	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2532	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2533	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2534	1-216-089-91	METAL GLAZE 47K	5%	1/10W	
R2535	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W	
R2536	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	
R2539	1-216-652-11	METAL CHIP 1.1K	0.50%	1/10W	
R2540	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	
R2541	1-216-053-00	METAL GLAZE 1.5K	5%	1/10W	
R2542	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	
R2543	1-216-049-91	METAL GLAZE 1K	5%	1/10W	
R2544	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	
R2545	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	
R2546	1-216-049-91	METAL GLAZE 1K	5%	1/10W	
R2547	1-216-017-91	METAL GLAZE 47	5%	1/10W	
R2548	1-216-089-91	METAL GLAZE 47K	5%	1/10W	
R2549	1-216-081-00	METAL GLAZE 22K	5%	1/10W	
R2550	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	
R2554	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2555	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R2556	1-216-033-00	METAL GLAZE 220	5%	1/10W	

<SWITCH>

S1001	1-572-044-11	SWITCH, SLIDE

<CRYSTAL>

X2501	1-579-973-11	VIBRATOR, CRYSTAL
X2502	1-567-505-11	OSCILLATOR, CRYSTAL
X2503	1-567-504-11	OSCILLATOR, CRYSTAL

****

⚠* A-1316-287-A GA BOARD, COMPLETE

****

(VPL-S500E/S500M)
(Including GAA, GAB, GAC BOARD)

⚠* A-1316-289-A GA BOARD, COMPLETE (VPL-S500U)

****

(Including GAA, GAB, GAC BOARD)

	1-543-923-11	BEAD, FERRITE
	7-682-548-04	SCREW +P 3X8 (AEP)

<CAPACITOR>

C8001	⚠ 1-113-511-11	FILM	0.47MF	20%	275V
C8002	⚠ 1-136-726-11	FILM	0.056MF	5%	1.25KV (S500E/S500M)
C8002	⚠ 1-136-727-11	FILM	0.068MF	5%	1.25KV (S500U)
C8003	⚠ 1-136-726-11	FILM	0.056MF	5%	1.25KV (S500E/S500M)
C8003	⚠ 1-136-727-11	FILM	0.068MF	5%	1.25KV (S500U)
C8004	⚠ 1-117-185-11	ELECT	1500MF	20%	250V
C8005	⚠ 1-117-185-11	ELECT	1500MF	20%	250V
C8006	⚠ 1-107-888-91	ELECT	47MF	20%	25V
C8007	⚠ 1-125-601-11	ELECT	470MF	20%	450V
C8008	⚠ 1-136-727-11	FILM	0.068MF	5%	1.25KV
C8010	⚠ 1-117-186-11	FILM	2.2MF	10%	200V
C8011	⚠ 1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C8012	⚠ 1-137-477-61	FILM	0.47MF	10%	400V
C8013	⚠ 1-137-477-61	FILM	0.47MF	10%	400V
C8014	⚠ 1-107-888-91	ELECT	47MF	20%	25V
C8015	⚠ 1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C8016	⚠ 1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C8017	⚠ 1-164-644-91	CERAMIC	330PF	10%	500V
C8018	⚠ 1-164-644-91	CERAMIC	330PF	10%	500V
C8019	⚠ 1-163-251-91	CERAMIC CHIP	100PF	5%	50V
C8020	⚠ 1-107-889-91	ELECT	220MF	20%	25V
C8021	⚠ 1-163-141-91	CERAMIC CHIP	0.001MF	5%	50V
C8025	⚠ 1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C8030	⚠ 1-136-205-61	FILM	0.022MF	10%	630V
C8050	⚠ 1-107-888-91	ELECT	47MF	20%	25V
C8070	⚠ 1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V

<CONNECTOR>

CN8001	⚠* 1-774-248-11	CONNECTOR, BOARD TO BOARD 8P
CN8002	⚠* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P
CN8003	⚠ 1-691-390-11	PIN, CONNECTOR (PC BOARD) 3P
CN8004	⚠* 1-774-249-11	CONNECTOR, BOARD TO BOARD 10P
CN8005	⚠* 1-774-247-11	CONNECTOR, BOARD TO BOARD 5P
CN8006	⚠* 1-774-248-11	CONNECTOR, BOARD TO BOARD 8P
CN8007	⚠* 1-564-506-51	PLUG, CONNECTOR 3P
CN8008	⚠* 1-564-507-71	PLUG, CONNECTOR 4P

<DIODE>

D8001	⚠ 8-719-124-09	DIODE 1S2836-T1
D8002	⚠ 8-719-058-53	DIODE DSL60
	7-682-548-04	SCREW +P 3X8 ; D8002
D8003	⚠ 8-719-022-99	DIODE DSSB60L
	7-682-548-04	SCREW +P 3X8 ; D8003
D8004	⚠ 8-719-058-53	DIODE DSL60
	7-682-548-04	SCREW +P 3X8 ; D8004
D8005	⚠ 8-719-124-09	DIODE 1S2836-T1
D8006	⚠ 8-719-058-54	DIODE D20LC40F
	7-682-548-04	SCREW +P 3X8 ; D8006
D8007	⚠ 8-719-058-54	DIODE D20LC40F
	7-682-548-04	SCREW +P 3X8 ; D8007
D8008	⚠ 8-719-058-43	DIODE RD120E-T1
D8009	⚠ 8-719-058-54	DIODE D20LC40F
D8010	⚠ 8-719-921-20	DIODE 1SS119-25TD
D8025	⚠ 8-719-161-03	DIODE RD10SB-T1

<HIGH-VOLTAGE BLOCK>

IG8001	⚠ 1-453-213-11	HIGH-VOLTAGE BLOCK

<COIL>

L8001	⚠ 1-411-914-11	COIL, CHOKE 220UH

<PHOTO COUPLER>

PH8001	⚠ 8-749-013-16	IC PC357N2T
PH8002	⚠ 8-749-013-16	IC PC357N2T
PH8004	⚠ 8-749-013-16	IC PC357N2T

GA | GAA

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
PH8005	⚠ 8-749-010-65	PHOTO COUPLER PC123FY2	
PH8006	⚠ 8-749-010-65	PHOTO COUPLER PC123FY2	
		<TRANSISTOR>	
Q8001	⚠ 8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L	
Q8002	⚠ 8-729-927-08	TRANSISTOR IRFI-840	
Q8003	⚠ 8-729-940-29	TRANSISTOR 2SK1328	
	7-682-548-04	SCREW +P 3X8 ; Q8003	
Q8004	⚠ 8-729-040-29	TRANSISTOR 2SK1328	
	7-682-548-04	SCREW +P 3X8 ; Q8004	
Q8005	⚠ 8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L	
Q8006	⚠ 8-719-039-26	DIODE K1V16TA	
Q8010	⚠ 8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L	
Q8018	⚠ 8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L	
Q8030	⚠ 8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L	
Q8031	⚠ 8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L	
		<RESISTOR>	
R8001	⚠ 1-220-779-11	WIREWOUND 5.6 5% 7W	
R8002	⚠ 1-202-933-61	FUSIBLE 0.1 10% 1/2W F	
R8003	⚠ 1-220-338-91	METAL GLAZE 330K 5% 1/2W	
R8004	⚠ 1-220-338-91	METAL GLAZE 330K 5% 1/2W	
R8006	⚠ 1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R8007	⚠ 1-216-065-91	METAL GLAZE 4.7K 5% 1/10W	
R8008	⚠ 1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8011	⚠ 1-202-933-61	FUSIBLE 0.1 10% 1/2W F	
R8012	⚠ 1-220-280-91	METAL GLAZE 22K 5% 1/4W	
R8013	⚠ 1-220-289-91	METAL GLAZE 22K 5% 1/4W	
R8014	⚠ 1-216-065-91	METAL GLAZE 4.7K 5% 1/10W	
R8015	⚠ 1-216-065-91	METAL GLAZE 4.7K 5% 1/10W	
R8016	⚠ 1-215-863-71	METAL OXIDE 100 5% 1W F	
R8017	⚠ 1-215-863-71	METAL OXIDE 100 5% 1W F	
R8020	⚠ 1-216-061-91	METAL GLAZE 3.3K 5% 1/10W	
R8022	⚠ 1-220-752-51	WIREWOUND 0.1 1% 3W	
R8023	⚠ 1-217-796-11	FUSIBLE 33 5% 5W F	
R8025	⚠ 1-260-336-71	CARBON 4.7K 5% 1/2W	
R8026	⚠ 1-260-336-71	CARBON 4.7K 5% 1/2W	
R8027	⚠ 1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8028	⚠ 1-216-041-91	METAL GLAZE 470 5% 1/10W	
R8029	⚠ 1-220-752-51	WIREWOUND 0.1 1% 3W	
R8031	⚠ 1-217-796-11	FUSIBLE 33 5% 5W F	
R8036	⚠ 1-216-065-91	METAL GLAZE 4.7K 5% 1/10W	
R8037	⚠ 1-218-191-71	METAL OXIDE 0.1 5% 1W F	
R8038	⚠ 1-218-191-71	METAL OXIDE 0.1 5% 1W F	
R8050	⚠ 1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8051	⚠ 1-216-057-91	METAL GLAZE 2.2K 5% 1/10W	
R8052	⚠ 1-216-295-91	CONDUCTOR, CHIP	
R8056	⚠ 1-216-061-91	METAL GLAZE 3.3K 5% 1/10W	
R8057	⚠ 1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R8060	⚠ 1-216-073-91	METAL GLAZE 10K 5% 1/10W	
R8061	⚠ 1-216-065-91	METAL GLAZE 4.7K 5% 1/10W	
R8070	⚠ 1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R8071	⚠ 1-216-065-91	METAL GLAZE 4.7K 5% 1/10W	
R8072	⚠ 1-216-053-91	METAL GLAZE 1.5K 5% 1/10W	
R8073	⚠ 1-216-065-91	METAL GLAZE 4.7K 5% 1/10W	
R8074	⚠ 1-216-345-71	METAL OXIDE 0.47 5% 1W F	
R8080	⚠ 1-220-779-11	WIREWOUND 5.6 5% 7W	
		<RELAY>	
RY8001	⚠ 1-515-849-11	RELAY	
RY8002	⚠ 1-515-849-11	RELAY	
		<TRANSFORMER>	
T8001	⚠ 1-429-770-11	TRANSFORMER, CONVERTER (PT)	

REF. NO.	PART NO.	DESCRIPTION			REMARK
		GAA BOARD			
		*************			
		<CAPACITOR>			
C8201	1-107-968-91	ELECT	2.2MF	20%	400V
C8202	1-126-155-51	ELECT	100MF	20%	6.3V
C8203	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C8204	1-136-165-00	FILM	0.1MF	5%	50V
C8205	1-136-165-00	FILM	0.1MF	5%	50V
C8206	1-124-589-11	ELECT	47MF	20%	16V
C8207	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8210	1-128-077-11	ELECT	22MF	20%	25V
		<CONNECTOR>			
CN8201	* 1-774-245-11	CONNECTOR, BOARD TO BOARD 8P			
		<DIODE>			
D8201	8-719-054-32	DIODE ERA15-06			
D8202	8-719-800-76	DIODE 1SS226			
		<IC>			
IC8201	8-759-100-93	IC uPC393G2			
IC8202	8-759-245-47	IC TA78L09F-T1			
IC8203	8-759-510-71	IC BA10358F-E2			
		<TRANSISTOR>			
Q8201	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q8202	8-729-216-22	TRANSISTOR 2SA1162-G			
Q8203	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q8204	8-729-216-22	TRANSISTOR 2SA1162-G			
Q8210	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
		<RESISTOR>			
R8201	1-215-485-00	METAL	470K	1%	1/4W
R8202	1-215-485-00	METAL	470K	1%	1/4W
R8203	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R8204	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8205	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8207	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8208	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8209	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8210	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8211	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8212	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R8213	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8214	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8215	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R8216	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8217	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R8218	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R8220	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R8221	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R8222	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R8223	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R8224	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R8225	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8226	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R8227	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8228	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R8229	1-216-029-00	METAL GLAZE	150	5%	1/10W
R8230	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8231	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
		GAB BOARD			
		**********			
		<CAPACITOR>			
C8301	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8302	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C8303	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C8304	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8306	1-128-526-11	ELECT	100MF	20%	16V
C8307	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C8308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8309	1-126-157-11	ELECT	10MF	20%	16V
C8310	1-124-589-11	ELECT	47MF	20%	16V
C8312	1-126-096-11	ELECT	10MF	20%	35V
C8320	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C8321	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8323	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8326	1-107-888-11	ELECT	47MF	20%	25V
C8331	1-136-165-00	FILM	0.1MF	5%	50V
		<CONNECTOR>			
CN8301	*1-774-245-11	CONNECTOR, BOARD TO BOARD 8P			
CN8302	*1-774-244-11	CONNECTOR, BOARD TO BOARD 5P			
		<DIODE>			
D8301	8-719-104-34	DIODE 1S2836			
D8302	8-719-104-34	DIODE 1S2836			
D8303	8-719-104-34	DIODE 1S2836			
D8305	8-719-118-15	DIODE RD36M-B			
D8307	8-719-104-34	DIODE 1S2836			
D8308	8-719-104-34	DIODE 1S2836			
D8309	8-719-158-15	DIODE RD5.6SB			
D8310	8-719-158-17	DIODE RD5.6SB2			
D8320	8-719-801-78	DIODE 1SS184			
D8321	8-719-161-05	DIODE RD8.2SB-T1			
D8322	8-719-104-34	DIODE 1S2836			
D8323	8-719-104-34	DIODE 1S2836			
D8324	8-719-801-78	DIODE 1SS184			
D8330	8-719-104-34	DIODE 1S2836			
		<IC>			
IC8301	8-759-100-95	IC uPC324G2			
IC8303	8-759-388-23	IC TL431BCDR2			
IC8304	8-759-169-45	IC TA78L12F			
IC8305	8-759-701-01	IC NJM2904M			
		<TRANSISTOR>			
Q8303	8-729-216-22	TRANSISTOR 2SA1162-G			
Q8304	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q8306	8-729-216-22	TRANSISTOR 2SA1162-G			
Q8308	8-729-216-22	TRANSISTOR 2SA1162-G			
Q8309	8-729-216-22	TRANSISTOR 2SA1162-G			
Q8310	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q8311	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q8312	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q8313	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
Q8314	8-729-216-22	TRANSISTOR 2SA1162-G			
Q8320	8-729-216-22	TRANSISTOR 2SA1162-G			
Q8321	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L			
		<RESISTOR>			
R8302	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8303	1-218-760-11	METAL CHIP	220K	0.50%	1/10W
R8304	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W
R8307	1-216-698-11	METAL CHIP	91K	0.50%	1/10W
R8308	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8309	1-218-772-11	METAL CHIP	680K	0.50%	1/10W
R8310	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R8313	1-220-154-11	METAL CHIP	100K	0.10%	1/10W
R8314	1-220-750-11	METAL	910	0.10%	1/10W
R8315	1-218-367-11	METAL CHIP	10K	0.10%	1/10W
R8316	1-219-712-11	METAL CHIP	390	0.10%	1/10W
R8317	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8318	1-216-654-11	METAL CHIP	1.3K	0.50%	1/10W
R8321	1-247-815-91	CARBON	220	5%	1/4W
R8322	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R8323	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8324	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R8325	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R8327	1-247-815-91	CARBON	220	5%	1/4W
R8328	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R8331	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8332	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8333	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8334	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8336	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8337	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8338	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8342	1-218-758-11	METAL CHIP	180K	0.50%	1/10W
R8344	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R8349	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R8350	1-220-751-11	METAL	2.2K	0.10%	1/10W
R8351	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8352	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R8354	1-216-295-91	CONDUCTOR, CHIP			
R8355	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R8356	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8357	1-216-041-00	METAL GLAZE	470	5%	1/10W
R8358	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8359	1-216-025-91	METAL GLAZE	100	5%	1/10W
R8360	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R8361	1-216-295-91	CONDUCTOR, CHIP			
R8362	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8363	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R8364	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R8365	1-216-041-00	METAL GLAZE	470	5%	1/10W
R8367	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8368	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8369	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8370	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8371	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8372	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R8380	1-216-295-91	CONDUCTOR, CHIP			
R8381	1-220-154-11	METAL CHIP	100K	0.10%	1/10W
R8382	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R8383	1-216-047-91	METAL GLAZE	820	5%	1/10W
R8384	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R8385	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R8386	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R8387	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R8388	1-216-295-91	CONDUCTOR, CHIP			
		GAC BOARD			
		**********			
		<CAPACITOR>			
C8401	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C8402	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C8403	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C8404	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C8405	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V

GAC GB

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
C8406	1-164-346-11	CERAMIC CHIP 1MF			16V
C8407	1-163-017-00	CERAMIC CHIP 0.0047MF	10%		50V
C8408	1-164-004-11	CERAMIC CHIP 0.1MF	10%		25V
C8410	1-163-121-00	CERAMIC CHIP 150PF	5%		50V
C8411	1-164-232-11	CERAMIC CHIP 0.01MF	10%		50V
C8412	1-164-004-11	CERAMIC CHIP 0.1MF	10%		25V
C8413	1-164-222-11	CERAMIC CHIP 0.22MF			25V
C8414	1-126-096-11	ELECT 10MF	20%		35V
C8420	1-164-004-11	CERAMIC CHIP 0.1MF	10%		25V
		<CONNECTOR>			
CN8401	*1-774-246-11	CONNECTOR, BOARD TO BOARD 10P			
		<DIODE>			
D8401	8-719-911-19	DIODE 1SS119-25			
D8402	8-719-911-19	DIODE 1SS119-25			
D8403	8-719-986-73	DIODE RB441Q			
D8404	8-719-986-73	DIODE RB441Q			
		<IC>			
IC8401	8-759-298-87	IC CXA8038P			
		<TRANSISTOR>			
Q8401	8-729-104-75	TRANSISTOR 2SB799-ML			
Q8402	8-729-104-75	TRANSISTOR 2SB799-ML			
		<RESISTOR>			
R8401	1-216-017-91	METAL GLAZE 47	5%	1/10W	
R8404	1-216-049-91	METAL GLAZE 1K	5%	1/10W	
R8405	1-216-049-91	METAL GLAZE 1K	5%	1/10W	
R8406	1-249-393-11	CARBON 10	5%	1/4W	F
R8407	1-249-393-11	CARBON 10	5%	1/4W	F
R8408	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
R8409	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R8410	1-216-109-00	METAL GLAZE 330K	5%	1/10W	
R8412	1-216-689-11	METAL CHIP 39K	0.50%	1/10W	
R8413	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	
R8414	1-216-675-11	METAL CHIP 10K	0.50%	1/10W	
R8420	1-216-691-11	METAL CHIP 47K	0.50%	1/10W	
R8421	1-216-295-91	CONDUCTOR, CHIP			
R8424	1-216-033-00	METAL GLAZE 220	5%	1/10W	
R8425	1-216-041-00	METAL GLAZE 470	5%	1/10W	
R8430	1-216-667-11	METAL CHIP 4.7K	0.50%	1/10W	
		<TRANSFORMER>			
T8401	1-429-741-11	TRANSFORMER, DRIVE			
		<THERMISTOR>			
TH8401	1-807-796-11	THERMISTOR			

****

⚠*A-1316-290-A GB BOARD, COMPLETE
****
(Including GBA BOARD)

7-682-548-04 SCREW +P 3X8

<CAPACITOR>

C7001 ⚠1-164-644-91 CERAMIC 330PF 10% 500V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C7002	⚠1-164-644-91	CERAMIC	330PF	10%	500V
C7003	⚠1-107-905-91	ELECT	4.7MF	20%	50V
C7004	⚠1-128-526-91	ELECT	100MF	20%	25V
C7005	⚠1-137-192-81	FILM	0.33MF	5%	50V
C7006	⚠1-137-192-81	FILM	0.33MF	5%	50V
C7007	⚠1-164-625-91	CERAMIC	680PF	10%	500V
C7008	⚠1-137-188-81	FILM	0.15MF	5%	50V
C7009	⚠1-137-188-81	FILM	0.15MF	5%	50V
C7010	⚠1-129-718-91	FILM	0.022MF	10%	630V
C7011	⚠1-107-868-91	ELECT	330MF	20%	6.3V
C7012	⚠1-163-809-91	CERAMIC CHIP	0.047MF	10%	25V
C7013	⚠1-107-890-91	ELECT	2200MF	20%	25V
C7014	⚠1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C7015	⚠1-107-891-91	ELECT	3300MF	20%	25V
C7016	⚠1-128-527-91	ELECT	330MF	20%	25V
C7017	⚠1-107-878-91	ELECT	2200MF	20%	10V
C7018	⚠1-107-905-91	ELECT	4.7MF	20%	50V
C7019	⚠1-128-526-91	ELECT	100MF	20%	25V
C7021	⚠1-128-526-91	ELECT	100MF	20%	25V
C7023	⚠1-109-982-91	CERAMIC CHIP	1MF	10%	10V
C7030	⚠1-164-004-91	CERAMIC CHIP	0.1MF	10%	25V
C7060	⚠1-107-888-91	ELECT	47MF	20%	25V
C7061	⚠1-107-888-91	ELECT	47MF	20%	25V
C7062	⚠1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
		<CONNECTOR>			
CN7001	⚠*1-774-247-11	CONNECTOR, BOARD TO BOARD 5P			
CN7002	⚠*1-564-507-71	PLUG, CONNECTOR 4P			
CN7003	⚠*1-774-248-11	CONNECTOR, BOARD TO BOARD 8P			
CN7004	⚠ 1-691-990-11	PIN, CONNECTOR (PC BOARD) 3P			
CN7005	⚠ 1-564-511-11	PLUG, CONNECTOR 8P			
CN7007	⚠*1-564-507-51	PLUG, CONNECTOR 4P			
CN7008	⚠ 1-564-513-11	PLUG, CONNECTOR 10P			
CN7009	⚠*1-564-506-61	PLUG, CONNECTOR 3P			
CN7010	⚠*1-564-506-51	PLUG, CONNECTOR 3P			
		<DIODE>			
D7001	⚠8-719-921-20	DIODE 1SS119-25TD			
D7002	⚠8-719-921-20	DIODE 1SS119-25TD			
D7003	⚠8-719-921-20	DIODE 1SS119-25TD			
D7004	⚠8-719-921-20	DIODE 1SS119-25TD			
D7005	⚠8-719-024-88	DIODE D1NL20-TR			
D7006	⚠8-719-052-91	DIODE D4SBS4-F			
D7007	⚠8-719-510-12	DIODE D10SC4M			
D7008	⚠8-719-024-88	DIODE D1NL20-TR			
D7009	⚠8-719-510-12	DIODE D10SC4M			
D7010	⚠8-719-124-09	DIODE 1S2836-T1			
D7011	⚠8-719-160-68	DIODE RD18FB2			
D7013	⚠8-719-113-35	DIODE RD18ES-T1B2			
D7014	⚠8-719-124-09	DIODE 1S2836-T1			
		<IC>			
IC7001	⚠8-759-069-28	IC PQ05RF11			
IC7002	⚠8-759-198-31	IC uPC1093J-1-T			
IC7010	⚠8-749-921-99	IC SI-3120CA			
		<COIL>			
L7001	⚠1-406-659-11	COIL, CHOKE 10UH			
L7002	⚠1-412-525-31	INDUCTOR 10UH			
		<PHOTO COUPLER>			
PH7001	⚠8-749-010-55	PHOTO COUPLER PC123FY2			

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

GB | GBA

REF. NO.	PART NO.	DESCRIPTION				REMARK
		<IC LINK>				
PS7001	⚠1-533-282-21	LINK, IC				
PS7002	⚠1-533-282-21	LINK, IC				
PS7003	⚠1-533-282-21	LINK, IC				
PS7004	⚠1-533-282-21	LINK, IC				
PS7005	⚠1-576-124-21	LINK, IC				
		<TRANSISTOR>				
Q7001	⚠8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L				
Q7002	⚠8-729-016-15	TRANSISTOR 2SC4833MNP				
Q7003	⚠8-729-016-15	TRANSISTOR 2SC4833MNP				
Q7004	⚠8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L				
Q7005	⚠8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L				
Q7006	⚠8-729-230-47	TRANSISTOR 2SA1162-YG-TE85L				
Q7007	⚠8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L				
Q7008	⚠8-729-230-50	TRANSISTOR 2SC2712-YG-TE85L				
		<RESISTOR>				
R7001	⚠1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R7002	⚠1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R7003	⚠1-260-128-81	CARBON	270K	5%	1/2W	
R7004	⚠1-260-128-81	CARBON	270K	5%	1/2W	
R7005	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7006	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7007	⚠1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R7008	⚠1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R7009	⚠1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R7010	⚠1-247-783-91	CARBON	10	5%	1/4W	
R7011	⚠1-260-123-81	CARBON	100K	5%	1/2W	
R7012	⚠1-260-123-81	CARBON	100K	5%	1/2W	
R7013	⚠1-247-771-91	CARBON	3.3	5%	1/4W	
R7014	⚠1-247-783-91	CARBON	10	5%	1/4W	
R7015	⚠1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R7016	⚠1-247-771-91	CARBON	3.3	5%	1/4W	
R7018	⚠1-216-113-91	METAL GLAZE	470K	5%	1/10W	
R7019	⚠1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R7020	⚠1-216-659-91	METAL CHIP	2.2K	0.50%	1/10W	
R7021	⚠1-216-683-91	METAL CHIP	22K	0.50%	1/10W	
R7022	⚠1-216-667-91	METAL CHIP	4.7K	0.50%	1/10W	
R7023	⚠1-216-025-91	METAL GLAZE	100	5%	1/10W	
R7024	⚠1-249-387-91	CARBON	3.3	5%	1/4W	F
R7025	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7026	⚠1-216-057-91	METAL GLAZE	2.2K	5%	1/10W	
R7027	⚠1-216-065-91	METAL GLAZE	4.7K	5%	1/10W	
R7028	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7029	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7030	⚠1-216-073-91	METAL GLAZE	10K	5%	1/10W	
R7032	⚠1-216-025-91	METAL GLAZE	100	5%	1/10W	
R7033	⚠1-216-025-91	METAL GLAZE	100	5%	1/10W	
R7051	⚠1-216-033-91	METAL GLAZE	220	5%	1/10W	
R7060	⚠1-216-295-91	CONDUCTOR, CHIP				
R7062	⚠1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R7065	⚠1-216-377-71	METAL OXIDE	4.7	5%	2W	F
		<TRANSFORMER>				
T7001	⚠1-427-864-13	TRANSFORMER, CONVERTER (PRT)				
T7002	⚠1-429-742-11	TRANSFORMER, CONVERTER (PIT)				

GBA BOARD
****

		<CAPACITOR>			
C7201	1-107-824-11	CERAMIC	220PF	5%	1KV
C7202	1-107-824-11	CERAMIC	220PF	5%	1KV

REF. NO.	PART NO.	DESCRIPTION				REMARK
C7203	1-107-889-11	ELECT	220MF	20%	25V	
C7204	1-136-165-00	FILM	0.1MF	5%	50V	
C7205	1-136-165-00	FILM	0.1MF	5%	50V	
C7206	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	
C7207	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	
C7208	1-117-219-81	CERAMIC	68PF	5%	1KV	
C7209	1-136-538-11	FILM	0.001MF	3%	2KV	
C7210	1-136-171-00	FILM	0.33MF	5%	50V	
C7211	1-107-877-11	ELECT	1000MF	20%	10V	
C7212	1-128-526-11	ELECT	100MF	20%	25V	
C7213	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
		<CONNECTOR>				
CN7201	*1-774-245-11	CONNECTOR, BOARD TO BOARD 8P				
CN7202	*1-774-244-11	CONNECTOR, BOARD TO BOARD 5P				
		<DIODE>				
D7201	8-719-911-19	DIODE 1SS119-25				
D7202	8-719-109-54	DIODE RD2.2ESB2				
D7203	8-719-911-19	DIODE 1SS119-25				
D7204	8-719-109-54	DIODE RD2.2ESB2				
D7205	8-719-510-64	DIODE S2LA20F				
D7206	8-719-031-79	DIODE D5SC4M				
D7207	8-719-510-64	DIODE S2LA20F				
D7208	8-719-160-68	DIODE RD18FB2				
		<IC>				
IC7201	8-759-140-85	IC uPC1093J				
		<IC LINK>				
PS7201	1-532-637-00	LINK, IC (1A/150V)				
PS7202	*1-535-303-00	WIRE, JUMPER				
		<TRANSISTOR>				
Q7201	8-729-032-36	TRANSISTOR 2SC4052MNPR				
Q7202	8-729-032-36	TRANSISTOR 2SC4052MNPR				
		<RESISTOR>				
R7201	1-249-377-11	CARBON	0.47	5%	1/4W	F
R7202	1-249-377-11	CARBON	0.47	5%	1/4W	F
R7203	1-247-889-00	CARBON	270K	5%	1/4W	
R7204	1-247-889-00	CARBON	270K	5%	1/4W	
R7205	1-247-889-00	CARBON	270K	5%	1/4W	
R7206	1-247-889-00	CARBON	270K	5%	1/4W	
R7207	1-216-304-11	METAL GLAZE	3.3	5%	1/10W	
R7208	1-216-304-11	METAL GLAZE	3.3	5%	1/10W	
R7209	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R7210	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R7211	1-216-685-11	METAL CHIP	27K	0.50%	1/10W	
R7212	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R7213	1-249-393-11	CARBON	10	5%	1/4W	F
		<TRANSFORMER>				
T7201	1-427-864-11	TRANSFORMER, CONVERTER (PRT)				
T7202	1-429-740-11	TRANSFORMER, CONVERTER (PIT)				

****

C

REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1335-089-A	C BOARD, COMPLETE			
		**********			
	1-540-151-21	SOCKET, IC			
		<CAPACITOR>			
C5001	1-128-401-11	ELECT	100MF	20%	25V
C5002	1-126-204-11	ELECT	47MF	20%	16V
C5003	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5004	1-126-204-11	ELECT	47MF	20%	16V
C5005	1-126-204-11	ELECT	47MF	20%	16V
C5006	1-126-204-11	ELECT	47MF	20%	16V
C5007	1-126-204-11	ELECT	47MF	20%	16V
C5009	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5010	1-126-204-11	ELECT	47MF	20%	16V
C5011	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C5012	1-128-401-11	ELECT	100MF	20%	25V
C5013	1-128-401-11	ELECT	100MF	20%	25V
C5014	1-124-779-00	ELECT	10MF	20%	16V
C5015	1-126-204-11	ELECT	47MF	20%	16V
C5016	1-126-193-11	ELECT	1MF	20%	50V
C5017	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5018	1-109-994-11	CERAMIC CHIP	2.2MF	10%	10V
C5019	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5020	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5021	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C5022	1-109-994-11	CERAMIC CHIP	2.2MF	10%	10V
C5023	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5024	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5025	1-128-401-11	ELECT	100MF	20%	25V
C5026	1-128-401-11	ELECT	100MF	20%	25V
C5027	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5028	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5029	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5030	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5031	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5032	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5033	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5034	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5035	1-109-994-11	CERAMIC CHIP	2.2MF	10%	10V
C5036	1-126-205-11	ELECT	47MF	20%	6.3V
C5037	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C5038	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5039	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5040	1-126-205-11	ELECT	47MF	20%	6.3V
C5041	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C5042	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5043	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C5044	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C5045	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5046	1-164-346-11	CERAMIC CHIP	1MF		16V
C5047	1-126-205-11	ELECT	47MF	20%	6.3V
C5048	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5049	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5050	1-126-205-11	ELECT	47MF	20%	6.3V
C5051	1-128-401-11	ELECT	100MF	20%	25V
C5052	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5053	1-124-779-00	ELECT	10MF	20%	16V
C5054	1-126-205-11	ELECT	47MF	20%	6.3V
C5055	1-124-779-00	ELECT	10MF	20%	16V
C5057	1-124-779-00	ELECT	10MF	20%	16V
C5058	1-126-193-11	ELECT	1MF	20%	50V
C5059	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5060	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5061	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C5062	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C5063	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5064	1-126-205-11	ELECT	47MF	20%	6.3V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C5065	1-124-779-00	ELECT	10MF	20%	16V
C5066	1-124-779-00	ELECT	10MF	20%	16V
C5067	1-124-779-00	ELECT	10MF	20%	16V
C5068	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C5069	1-126-193-11	ELECT	1MF	20%	50V
C5070	1-136-153-00	FILM	0.01MF	5%	50V
C5071	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5077	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C5078	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C5079	1-126-205-11	ELECT	47MF	20%	6.3V
C5080	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5081	1-126-603-11	ELECT	4.7MF	20%	35V
C5082	1-126-603-11	ELECT	4.7MF	20%	35V
C5083	1-164-346-11	CERAMIC CHIP	1MF		16V
C5084	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5086	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C5090	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5094	1-128-401-11	ELECT	100MF	20%	25V
C5095	1-164-346-11	CERAMIC CHIP	1MF		16V
C5096	1-164-346-11	CERAMIC CHIP	1MF		16V
C5097	1-164-346-11	CERAMIC CHIP	1MF		16V
C5098	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5201	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5202	1-164-346-11	CERAMIC CHIP	1MF		16V
C5203	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5204	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C5205	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C5206	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5207	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5208	1-164-346-11	CERAMIC CHIP	1MF		16V
C5209	1-164-346-11	CERAMIC CHIP	1MF		16V
C5210	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5211	1-164-346-11	CERAMIC CHIP	1MF		16V
C5212	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5213	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5214	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C5215	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C5217	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5218	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5219	1-164-346-11	CERAMIC CHIP	1MF		16V
C5220	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5221	1-164-346-11	CERAMIC CHIP	1MF		16V
C5222	1-164-346-11	CERAMIC CHIP	1MF		16V
C5223	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5224	1-164-346-11	CERAMIC CHIP	1MF		16V
C5225	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C5226	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C5228	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5229	1-164-346-11	CERAMIC CHIP	1MF		16V
C5230	1-164-346-11	CERAMIC CHIP	1MF		16V
C5231	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5233	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5234	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5236	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5237	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5238	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5239	1-164-346-11	CERAMIC CHIP	1MF		16V
C5240	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5241	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5242	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C5243	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5244	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5245	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5246	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5247	1-164-346-11	CERAMIC CHIP	1MF		16V
C5248	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5249	1-164-346-11	CERAMIC CHIP	1MF		16V
C5250	1-163-001-11	CERAMIC CHIP	220PF	10%	50V

C

REF. NO.	PART NO.	DESCRIPTION			REMARK
C5251	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5252	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5253	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5254	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5255	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5257	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5258	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5261	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5262	1-164-346-11	CERAMIC CHIP	1MF		16V
C5269	1-164-346-11	CERAMIC CHIP	1MF		16V
C5270	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5273	1-128-401-11	ELECT	100MF	20%	25V
C5274	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5276	1-164-346-11	CERAMIC CHIP	1MF		16V
C5277	1-164-346-11	CERAMIC CHIP	1MF		16V
C5278	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C5280	1-164-346-11	CERAMIC CHIP	1MF		16V
C5281	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5301	1-128-401-11	ELECT	100MF	20%	25V
C5302	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5303	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5305	1-128-401-11	ELECT	100MF	20%	25V
C5306	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5307	1-124-779-00	ELECT	10MF	20%	16V
C5308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5310	1-126-204-11	ELECT	47MF	20%	16V
C5311	1-126-204-11	ELECT	47MF	20%	16V
C5312	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C5313	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C5314	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C5315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5316	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5318	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5401	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5402	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C5403	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5404	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C5405	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5406	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C5407	1-126-204-11	ELECT	47MF	20%	16V
C5408	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5409	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5410	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5412	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C5413	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5414	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C5415	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5419	1-163-220-11	CERAMIC CHIP	3PF	0.25PF	50V
C5433	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5434	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5435	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5450	1-126-204-11	ELECT	47MF	20%	16V
C5451	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5452	1-126-206-11	ELECT	100MF	20%	6.3V
C5453	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C5456	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5458	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5459	1-124-779-00	ELECT	10MF	20%	16V
C5460	1-163-089-00	CERAMIC CHIP	8PF	0.5PF	50V
C5464	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5501	1-128-401-11	ELECT	100MF	20%	25V
C5502	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5503	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5504	1-164-506-11	CERAMIC CHIP	4.7MF		16V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C5505	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5507	1-126-204-11	ELECT	47MF	20%	16V
C5508	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5509	1-128-401-11	ELECT	100MF	20%	25V
C5510	1-128-401-11	ELECT	100MF	20%	25V
C5511	1-128-401-11	ELECT	100MF	20%	25V
C5517	1-126-397-11	ELECT	33MF	20%	25V
C5518	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5519	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5520	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5521	1-126-397-11	ELECT	33MF	20%	25V
C5522	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5526	1-128-401-11	ELECT	100MF	20%	25V
C5527	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5528	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5529	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5530	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5531	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5532	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5533	1-126-397-11	ELECT	33MF	20%	25V
C5540	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5541	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5542	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5543	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5545	1-128-401-11	ELECT	100MF	20%	25V
C5547	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5550	1-102-852-91	CERAMIC	47PF	5%	50V
C5551	1-102-852-91	CERAMIC	47PF	5%	50V
C5552	1-102-852-91	CERAMIC	47PF	5%	50V
C5553	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5554	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5555	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5556	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5557	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5572	1-128-401-11	ELECT	100MF	20%	25V
C5573	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5574	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5575	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5576	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5578	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5579	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5581	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5586	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5588	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5590	1-126-204-11	ELECT	47MF	20%	16V
C5591	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5592	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5593	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5594	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5598	1-128-401-11	ELECT	100MF	20%	25V
C5599	1-126-397-11	ELECT	33MF	20%	25V
C5600	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5602	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5605	1-128-401-11	ELECT	100MF	20%	25V
C5606	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5607	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5608	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5610	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5612	1-126-204-11	ELECT	47MF	20%	16V
C5613	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5614	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5615	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5616	1-164-506-11	CERAMIC CHIP	4.7MF		16V
C5620	1-128-401-11	ELECT	100MF	20%	25V
C5621	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5628	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5629	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5630	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

C

REF. NO.	PART NO.	DESCRIPTION			REMARK
C5631	1-164-346-11	CERAMIC CHIP 1MF			16V
C5632	1-164-346-11	CERAMIC CHIP 1MF			16V
C5633	1-164-346-11	CERAMIC CHIP 1MF			16V
C5634	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C5635	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C5636	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C5637	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C5638	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C5639	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C5640	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C5666	1-128-401-11	ELECT 100MF	20%	25V	
		<CONNECTOR>			
CN5001	1-778-372-11	HOUSING, CONNECTOR (PC BOARD)			
CN5002	1-778-372-11	HOUSING, CONNECTOR (PC BOARD)			
CN5003	1-691-551-11	PIN, CONNECTOR (SMD) 8P			
CN5004	1-580-055-21	PIN, CONNECTOR 2P			
CN5005	*1-580-056-21	PIN, CONNECTOR (SMD) 3P			
CN5006	*1-580-056-21	PIN, CONNECTOR 3P			
CN5007	1-695-223-21	PIN, CONNECTOR (SMD) 10P			
CN5008	1-778-372-11	HOUSING, CONNECTOR (PC BOARD)			
CN5009	1-580-055-21	PIN, CONNECTOR 2P			
CN5010	1-569-775-21	PIN, CONNECTOR 5P			
CN5012	*1-580-056-21	PIN, CONNECTOR (SMD) 3P			
CN5013	*1-580-056-21	PIN, CONNECTOR 3P			
CN5020	*1-573-056-21	CONNECTOR, FPC (1.0MM)(ZIF)13P			
CN5021	1-691-551-11	PIN, CONNECTOR (SMD) 8P			
CN5501	*1-764-829-11	CONNECTOR, FPC 24P			
CN5502	*1-764-829-11	CONNECTOR, FPC 24P			
CN5503	*1-764-829-11	CONNECTOR, FPC 24P			
		<DIODE>			
D5001	8-719-158-15	DIODE RD5.6SB			
D5002	8-719-914-43	DIODE DAN202K			
D5003	8-719-158-15	DIODE RD5.6SB			
D5005	8-719-158-15	DIODE RD5.6SB			
D5006	8-719-158-15	DIODE RD5.6SB			
D5007	8-719-158-15	DIODE RD5.6SB			
D5008	8-719-158-15	DIODE RD5.6SB			
D5009	8-719-158-15	DIODE RD5.6SB			
D5010	8-719-914-43	DIODE DAN202K			
D5011	8-719-037-24	DIODE RD12SB3-T1			
D5012	8-719-037-24	DIODE RD12SB3-T1			
D5016	8-719-158-15	DIODE RD5.6SB			
D5017	8-719-158-15	DIODE RD5.6SB			
D5018	8-719-158-15	DIODE RD5.6SB			
D5019	8-719-158-15	DIODE RD5.6SB			
D5201	8-719-158-15	DIODE RD5.6SB			
D5202	8-719-914-43	DIODE DAN202K			
D5203	8-719-914-44	DIODE DAP202K			
D5204	8-719-045-53	DIODE SEC1801C			
D5205	8-719-914-44	DIODE DAP202K			
D5206	8-719-914-43	DIODE DAN202K			
D5501	8-719-158-09	DIODE RD4.7SB2			
D5502	8-719-158-09	DIODE RD4.7SB2			
D5503	8-719-158-09	DIODE RD4.7SB2			
D5504	8-719-914-43	DIODE DAN202K			
D5505	8-719-914-43	DIODE DAN202K			
		<FERRITE BEAD>			
FB5001	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB5003	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB5201	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB5202	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB5203	1-414-234-11	INDUCTOR, FERRITE BEAD			

REF. NO.	PART NO.	DESCRIPTION	REMARK
FB5205	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5207	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5208	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5209	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5210	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5211	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5401	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5410	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5411	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5501	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5502	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5503	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5504	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5505	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5506	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5507	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5508	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5509	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5510	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5511	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5512	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5513	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5514	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5515	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5516	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5517	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5518	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5519	1-414-234-11	INDUCTOR, FERRITE BEAD	
		<FILTER>	
FL5001	1-239-400-11	FILTER, CHIP EMI	
FL5003	1-239-466-21	FILTER, EMI	
FL5004	1-239-466-21	FILTER, EMI	
FL5005	1-239-466-21	FILTER, EMI	
FL5006	1-239-466-21	FILTER, EMI	
FL5007	1-239-466-21	FILTER, EMI	
FL5008	1-239-466-21	FILTER, EMI	
FL5012	1-239-466-21	FILTER, EMI	
FL5413	1-239-466-21	FILTER, EMI	
FL5503	1-239-466-21	FILTER, EMI	
		<IC>	
IC5001	8-759-157-17	IC PQ05SZ1U	
IC5002	8-759-259-77	IC PQ20VZ5U	
IC5003	8-759-388-31	IC PQ20VZ1U	
IC5004	8-759-335-28	IC TA78M09F(TE16L)	
IC5005	8-759-058-58	IC TC7S04FU(TE85R)	
IC5006	8-759-259-77	IC PQ20VZ5U	
IC5007	8-752-070-54	IC CXA1839Q-T6	
IC5008	8-752-076-89	IC CXA2055P	
IC5009	8-759-092-82	IC SN75157PS-ELL2000	
IC5010	8-759-360-07	IC BA7657F-E2	
IC5011	8-759-984-59	IC MB654842UPF	
IC5012	8-759-300-71	IC HD14053BFP	
IC5013	8-759-242-78	IC TC7W02F	
IC5014	8-759-510-71	IC BA10358F-E2	
IC5015	8-759-105-49	IC uPC319G2	
IC5016	8-759-285-52	IC PC74HC02D-T	
IC5017	8-759-058-64	IC TC7S32FU(TE85R)	
IC5018	8-759-058-62	IC TC7S08FU(TE85R)	
IC5019	8-759-444-11	IC RH5VL51AA-T1	
IC5020	8-759-286-67	IC PC74HC4538D-T	
IC5201	8-759-162-80	IC MM1170BFB	
IC5202	8-759-421-41	IC HD6433337WA08F	
IC5203	8-759-469-77	IC CY7C136-55NC	
IC5204	8-759-058-62	IC TC7S08FU(TE85R)	
IC5205	8-759-482-04	IC M27C512-MAIN-SX1624V1.00	

C

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC5206	8-759-984-58	IC MB671469PF	
IC5207	8-759-479-76	IC EPM7032LC44-15-SX1624	
IC5209	8-759-162-80	IC MM1170BFB	
IC5210	8-759-285-63	IC PC74HC126D-T	
IC5212	8-759-285-63	IC PC74HC126D-T	
IC5213	8-759-286-50	IC PC74HC4066D-T	
IC5214	8-759-285-61	IC PC74HC123D-T	
IC5215	8-759-286-50	IC PC74HC4066D-T	
IC5216	8-759-471-25	IC BR24CF16F	
IC5217	8-759-471-25	IC BR24CF16F	
IC5218	8-759-009-06	IC MC14052BF	
IC5219	8-759-058-62	IC TC7S08FU(TE85R)	
IC5301	8-759-286-17	IC PC74HC32D-T	
IC5302	8-759-469-89	IC MB90091A-134	
IC5303	8-759-286-99	IC PC74HC74D-T	
IC5304	8-759-482-02	IC M27C2001-TBL-SX1624V1.00	
IC5305	8-759-482-03	IC M27C2001-FONT-SX1624V1.00	
IC5306	8-759-286-99	IC PC74HC74D-T	
IC5310	8-759-286-99	IC PC74HC74D-T	
IC5311	8-759-286-99	IC PC74HC74D-T	
IC5312	8-759-082-55	IC TC7W00FU	
IC5313	8-759-058-62	IC TC7S08FU(TE85R)	
IC5314	8-759-058-62	IC TC7S08FU(TE85R)	
IC5401	8-759-244-75	IC TC74AC541F	
IC5402	8-759-058-58	IC TC7S04FU(TE85R)	
IC5403	8-752-382-63	IC CXD2442Q	
IC5404	8-759-157-17	IC PQ05SZ1U	
IC5405	8-759-391-82	IC DS75365MX	
IC5413	8-759-295-09	IC TLC29932IPW	
IC5501	8-759-604-78	IC M5216FP	
IC5502	8-752-080-98	IC CXA2111R	
IC5503	8-759-258-47	IC LT1229CS8-E2	
IC5504	8-759-258-47	IC LT1229CS8-E2	
IC5505	8-752-077-01	IC CXA2504N	
IC5506	8-752-077-01	IC CXA2504N	
IC5507	8-752-077-01	IC CXA2504N	
IC5508	8-759-258-47	IC LT1229CS8-E2	
IC5509	8-759-258-47	IC LT1229CS8-E2	
IC5511	8-759-391-81	IC uPD74HC4066AG-E2	
IC5512	8-759-391-81	IC uPD74HC4066AG-E2	
IC5513	8-759-391-81	IC uPD74HC4066AG-E2	
IC5514	8-759-184-64	IC TC4W66FU	

<COIL>

L5401	1-410-393-11	INDUCTOR CHIP 100UH	

<TRANSISTOR>

Q5001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5002	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5003	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5004	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5006	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q5007	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5009	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q5010	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5012	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q5013	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5015	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5016	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5017	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q5019	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5024	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5026	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q5027	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5031	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5032	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5036	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5037	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5038	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q5039	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5041	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5042	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5043	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5044	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q5045	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q5050	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5201	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5202	8-729-101-07	TRANSISTOR 2SB798-DL	
Q5204	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5205	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5301	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5302	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5303	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5304	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5305	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5306	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5307	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5401	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q5402	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q5403	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q5501	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5502	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5503	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5504	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5505	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5506	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5507	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5508	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5509	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q5510	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5576	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5580	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	

<RESISTOR>

R5001	1-216-045-00	METAL GLAZE	680	5%	1/10W
R5002	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5003	1-216-035-00	METAL GLAZE	270	5%	1/10W
R5004	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5005	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5006	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5007	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5008	1-216-035-00	METAL GLAZE	270	5%	1/10W
R5009	1-216-035-00	METAL GLAZE	270	5%	1/10W
R5010	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5011	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R5012	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R5013	1-216-037-00	METAL GLAZE	330	5%	1/10W
R5014	1-216-637-11	METAL CHIP	270	0.50%	1/10W
R5015	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5016	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5017	1-216-295-91	CONDUCTOR, CHIP			
R5018	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5019	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5020	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5021	1-216-037-00	METAL GLAZE	330	5%	1/10W
R5022	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5023	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5024	1-216-682-11	METAL CHIP	20K	0.50%	1/10W
R5025	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R5026	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R5027	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R5028	1-216-644-11	METAL CHIP	510	0.50%	1/10W
R5029	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R5030	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R5031	1-216-656-11	METAL CHIP	1.6K	0.50%	1/10W

C

REF. NO.	PART NO.	DESCRIPTION		REMARK
R5032	1-216-049-91	METAL GLAZE 1K	5% 1/10W	
R5033	1-216-049-91	METAL GLAZE 1K	5% 1/10W	
R5034	1-216-083-00	METAL GLAZE 27K	5% 1/10W	
R5035	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5036	1-216-085-00	METAL GLAZE 33K	5% 1/10W	
R5037	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5038	1-216-049-91	METAL GLAZE 1K	5% 1/10W	
R5042	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	
R5043	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5044	1-216-049-91	METAL GLAZE 1K	5% 1/10W	
R5045	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5046	1-216-113-00	METAL GLAZE 470K	5% 1/10W	
R5049	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5051	1-216-097-91	METAL GLAZE 100K	5% 1/10W	
R5052	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5054	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5055	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	
R5056	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5057	1-216-101-00	METAL GLAZE 150K	5% 1/10W	
R5058	1-216-049-91	METAL GLAZE 1K	5% 1/10W	
R5059	1-216-093-00	METAL GLAZE 68K	5% 1/10W	
R5060	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5061	1-216-081-00	METAL GLAZE 22K	5% 1/10W	
R5063	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5065	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5068	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	
R5074	1-216-041-00	METAL GLAZE 470	5% 1/10W	
R5075	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5076	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	
R5079	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	
R5080	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W	
R5081	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	
R5094	1-216-089-91	METAL GLAZE 47K	5% 1/10W	
R5095	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5100	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5101	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5102	1-216-049-91	METAL GLAZE 1K	5% 1/10W	
R5103	1-216-089-91	METAL GLAZE 47K	5% 1/10W	
R5104	1-216-097-91	METAL GLAZE 100K	5% 1/10W	
R5105	1-216-097-91	METAL GLAZE 100K	5% 1/10W	
R5106	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5108	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	
R5109	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5111	1-216-017-91	METAL GLAZE 47	5% 1/10W	
R5112	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5113	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	
R5117	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	
R5118	1-216-121-91	METAL GLAZE 1M	5% 1/10W	
R5119	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5122	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5123	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5124	1-216-049-91	METAL GLAZE 1K	5% 1/10W	
R5126	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5129	1-216-017-91	METAL GLAZE 47	5% 1/10W	
R5130	1-216-089-91	METAL GLAZE 47K	5% 1/10W	
R5131	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5132	1-216-049-91	METAL GLAZE 1K	5% 1/10W	
R5133	1-216-017-91	METAL GLAZE 47	5% 1/10W	
R5134	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5135	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5136	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5137	1-216-017-91	METAL GLAZE 47	5% 1/10W	
R5138	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	
R5139	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5140	1-216-089-91	METAL GLAZE 47K	5% 1/10W	
R5141	1-216-097-91	METAL GLAZE 100K	5% 1/10W	
R5142	1-216-097-91	METAL GLAZE 100K	5% 1/10W	
R5143	1-216-105-91	METAL GLAZE 220K	5% 1/10W	
R5144	1-216-017-91	METAL GLAZE 47	5% 1/10W	

REF. NO.	PART NO.	DESCRIPTION		REMARK
R5145	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5146	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5147	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	
R5148	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	
R5149	1-216-017-91	METAL GLAZE 47	5% 1/10W	
R5150	1-216-017-91	METAL GLAZE 47	5% 1/10W	
R5151	1-216-017-91	METAL GLAZE 47	5% 1/10W	
R5153	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5154	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5155	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5156	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5166	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5168	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5170	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	
R5171	1-216-687-11	METAL CHIP 33K	0.50% 1/10W	
R5172	1-216-656-11	METAL CHIP 1.6K	0.50% 1/10W	
R5173	1-216-644-11	METAL CHIP 510	0.50% 1/10W	
R5176	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5177	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5178	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5179	1-216-295-91	CONDUCTOR, CHIP		
R5180	1-216-295-91	CONDUCTOR, CHIP		
R5181	1-216-295-91	CONDUCTOR, CHIP		
R5182	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5183	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5184	1-216-001-00	METAL GLAZE 10	5% 1/10W	
R5185	1-216-001-00	METAL GLAZE 10	5% 1/10W	
R5186	1-216-001-00	METAL GLAZE 10	5% 1/10W	
R5201	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5202	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5203	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5204	1-216-121-91	METAL GLAZE 1M	5% 1/10W	
R5205	1-216-045-00	METAL GLAZE 680	5% 1/10W	
R5206	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5207	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5208	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5212	1-216-049-91	METAL GLAZE 1K	5% 1/10W	
R5213	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5214	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5216	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5219	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5220	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5221	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5222	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5223	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5224	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5227	1-216-105-91	METAL GLAZE 220K	5% 1/10W	
R5228	1-216-105-91	METAL GLAZE 220K	5% 1/10W	
R5229	1-216-105-91	METAL GLAZE 220K	5% 1/10W	
R5230	1-216-033-00	METAL GLAZE 220	5% 1/10W	
R5231	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	
R5232	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5233	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5234	1-216-089-91	METAL GLAZE 47K	5% 1/10W	
R5258	1-216-035-00	METAL GLAZE 270	5% 1/10W	
R5259	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	
R5260	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5263	1-216-089-91	METAL GLAZE 47K	5% 1/10W	
R5264	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5266	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5302	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5303	1-216-073-00	METAL GLAZE 10K	5% 1/10W	
R5304	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5305	1-216-025-91	METAL GLAZE 100	5% 1/10W	
R5307	1-216-043-91	METAL GLAZE 560	5% 1/10W	
R5308	1-216-049-91	METAL GLAZE 1K	5% 1/10W	
R5313	1-216-049-91	METAL GLAZE 1K	5% 1/10W	
R5314	1-216-089-91	METAL GLAZE 47K	5% 1/10W	
R5315	1-216-049-91	METAL GLAZE 1K	5% 1/10W	

C

REF. NO.	PART NO.	DESCRIPTION		REMARK
R5316	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R5317	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R5318	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R5322	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5323	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W
R5324	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R5325	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R5327	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W
R5328	1-216-037-00	METAL GLAZE 330	5%	1/10W
R5329	1-216-115-00	METAL GLAZE 560K	5%	1/10W
R5330	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W
R5331	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R5332	1-216-037-00	METAL GLAZE 330	5%	1/10W
R5333	1-216-115-00	METAL GLAZE 560K	5%	1/10W
R5334	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R5335	1-216-037-00	METAL GLAZE 330	5%	1/10W
R5336	1-216-115-00	METAL GLAZE 560K	5%	1/10W
R5402	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5403	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5404	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5405	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5413	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5415	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5447	1-216-029-00	METAL GLAZE 150	5%	1/10W
R5448	1-216-029-00	METAL GLAZE 150	5%	1/10W
R5449	1-216-029-00	METAL GLAZE 150	5%	1/10W
R5450	1-216-029-00	METAL GLAZE 150	5%	1/10W
R5451	1-216-029-00	METAL GLAZE 150	5%	1/10W
R5452	1-216-029-00	METAL GLAZE 150	5%	1/10W
R5453	1-216-029-00	METAL GLAZE 150	5%	1/10W
R5454	1-216-023-00	METAL GLAZE 82	5%	1/10W
R5455	1-216-023-00	METAL GLAZE 82	5%	1/10W
R5456	1-216-023-00	METAL GLAZE 82	5%	1/10W
R5457	1-216-023-00	METAL GLAZE 82	5%	1/10W
R5458	1-216-023-00	METAL GLAZE 82	5%	1/10W
R5459	1-216-023-00	METAL GLAZE 82	5%	1/10W
R5460	1-216-023-00	METAL GLAZE 82	5%	1/10W
R5474	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R5475	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R5476	1-216-041-00	METAL GLAZE 470	5%	1/10W
R5477	1-216-059-00	METAL GLAZE 2.7K	5%	1/10W
R5482	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5483	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5484	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5501	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5502	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5503	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5504	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R5506	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R5507	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5508	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R5509	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5510	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R5511	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5517	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R5518	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R5522	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R5527	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R5531	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5533	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R5534	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5535	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5536	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5537	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5538	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5539	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5540	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5541	1-216-111-91	METAL GLAZE 390K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION		REMARK
R5542	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5543	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5546	1-216-661-11	METAL CHIP 2.7K	0.50%	1/10W
R5547	1-216-653-11	METAL CHIP 1.2K	0.50%	1/10W
R5548	1-216-691-11	METAL CHIP 47K	0.50%	1/10W
R5549	1-216-693-11	METAL CHIP 56K	0.50%	1/10W
R5550	1-216-681-11	METAL CHIP 18K	0.50%	1/10W
R5551	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5552	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5565	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R5570	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R5571	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5572	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5573	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5574	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5575	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5576	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5577	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5578	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5579	1-216-111-91	METAL GLAZE 390K	5%	1/10W
R5580	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5581	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5582	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5594	1-216-651-11	METAL CHIP 1K	0.50%	1/10W
R5595	1-216-651-11	METAL CHIP 1K	0.50%	1/10W
R5596	1-216-673-11	METAL CHIP 8.2K	0.50%	1/10W
R5597	1-216-651-11	METAL CHIP 1K	0.50%	1/10W
R5598	1-216-651-11	METAL CHIP 1K	0.50%	1/10W
R5599	1-216-673-11	METAL CHIP 8.2K	0.50%	1/10W
R5600	1-216-651-11	METAL CHIP 1K	0.50%	1/10W
R5601	1-216-673-11	METAL CHIP 8.2K	0.50%	1/10W
R5603	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R5604	1-216-651-11	METAL CHIP 1K	0.50%	1/10W
R5608	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5609	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R5611	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5612	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5613	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5614	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5615	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5616	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R5617	1-216-298-00	METAL GLAZE 2.2	5%	1/10W
R5618	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R5619	1-216-298-00	METAL GLAZE 2.2	5%	1/10W
R5620	1-216-295-91	CONDUCTOR, CHIP		
R5621	1-216-025-91	METAL GLAZE 100	5%	1/10W
R5622	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R5623	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R5624	1-216-298-00	METAL GLAZE 2.2	5%	1/10W
R5625	1-216-298-00	METAL GLAZE 2.2	5%	1/10W
R5626	1-216-295-91	CONDUCTOR, CHIP		
R5629	1-216-648-11	METAL CHIP 750	0.50%	1/10W
R5630	1-216-648-11	METAL CHIP 750	0.50%	1/10W
R5631	1-216-648-11	METAL CHIP 750	0.50%	1/10W
R5632	1-216-652-11	METAL CHIP 1.1K	0.50%	1/10W
R5633	1-216-652-11	METAL CHIP 1.1K	0.50%	1/10W
R5634	1-216-679-11	METAL CHIP 15K	0.50%	1/10W
R5635	1-216-694-11	METAL CHIP 62K	0.50%	1/10W
R5636	1-216-694-11	METAL CHIP 62K	0.50%	1/10W
R5637	1-216-694-11	METAL CHIP 62K	0.50%	1/10W
R5638	1-216-676-11	METAL CHIP 11K	0.50%	1/10W
R5639	1-216-676-11	METAL CHIP 11K	0.50%	1/10W
R5640	1-216-676-11	METAL CHIP 11K	0.50%	1/10W
R5641	1-216-679-11	METAL CHIP 15K	0.50%	1/10W
R5642	1-216-679-11	METAL CHIP 15K	0.50%	1/10W
R5643	1-216-652-11	METAL CHIP 1.1K	0.50%	1/10W
R5644	1-216-648-11	METAL CHIP 750	0.50%	1/10W
R5645	1-216-648-11	METAL CHIP 750	0.50%	1/10W

C

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5646	1-216-648-11	METAL CHIP	750	0.50%	1/10W
R5647	1-216-646-11	METAL CHIP	620	0.50%	1/10W
R5648	1-216-646-11	METAL CHIP	620	0.50%	1/10W
R5649	1-216-646-11	METAL CHIP	620	0.50%	1/10W
R5650	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R5651	1-216-666-11	METAL CHIP	4.3K	0.50%	1/10W
R5652	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R5653	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R5654	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W
R5655	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R5656	1-216-676-11	METAL CHIP	11K	0.50%	1/10W
R5657	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R5658	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R5659	1-216-666-11	METAL CHIP	4.3K	0.50%	1/10W
R5661	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5662	1-216-693-11	METAL CHIP	56K	0.50%	1/10W
R5663	1-216-693-11	METAL CHIP	56K	0.50%	1/10W
R5664	1-216-693-11	METAL CHIP	56K	0.50%	1/10W
R5665	1-216-693-11	METAL CHIP	56K	0.50%	1/10W
R5666	1-216-111-91	METAL GLAZE	390K	5%	1/10W
R5667	1-216-015-00	METAL GLAZE	39	5%	1/10W
R5668	1-216-015-00	METAL GLAZE	39	5%	1/10W
R5669	1-216-015-00	METAL GLAZE	39	5%	1/10W
R5670	1-216-295-91	CONDUCTOR, CHIP			
R5671	1-216-111-91	METAL GLAZE	390K	5%	1/10W
R5672	1-216-111-91	METAL GLAZE	390K	5%	1/10W
R5673	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5740	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R5748	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5752	1-216-298-00	METAL GLAZE	2.2	5%	1/10W
R5753	1-216-298-00	METAL GLAZE	2.2	5%	1/10W
R5754	1-216-660-11	METAL CHIP	2.4K	0.50%	1/10W
R5755	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R5756	1-216-295-91	CONDUCTOR, CHIP			
R5757	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R5758	1-216-295-91	CONDUCTOR, CHIP			
R5759	1-216-295-91	CONDUCTOR, CHIP			
R5760	1-216-295-91	CONDUCTOR, CHIP			
R5761	1-216-648-11	METAL CHIP	750	0.50%	1/10W
R5762	1-216-648-11	METAL CHIP	750	0.50%	1/10W
R5763	1-216-648-11	METAL CHIP	750	0.50%	1/10W
R5764	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R5765	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R5766	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R5767	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R5768	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R5769	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R5770	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R5771	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R5772	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R5773	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R5774	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R5775	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R5776	1-216-670-11	METAL CHIP	6.2K	0.50%	1/10W
R5777	1-216-670-11	METAL CHIP	6.2K	0.50%	1/10W
R5778	1-216-670-11	METAL CHIP	6.2K	0.50%	1/10W
R5779	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R5780	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R5781	1-218-758-11	METAL CHIP	180K	0.50%	1/10W
R5782	1-218-758-11	METAL CHIP	180K	0.50%	1/10W
R5783	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R5784	1-218-757-11	METAL CHIP	160K	0.50%	1/10W
R5785	1-218-757-11	METAL CHIP	160K	0.50%	1/10W
R5790	1-216-295-91	CONDUCTOR, CHIP			
R5791	1-216-295-91	CONDUCTOR, CHIP			
R5792	1-216-295-91	CONDUCTOR, CHIP			
R5793	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R5794	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R5795	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5796	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R5797	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R5798	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R5799	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R5800	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R5801	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R5802	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R5803	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R5804	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R5805	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R5806	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R5807	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5808	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5809	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5951	1-216-045-00	METAL GLAZE	680	5%	1/10W
R5952	1-216-025-91	METAL GLAZE	100	5%	1/10W
R5953	1-216-073-00	METAL GLAZE	10K	5%	1/10W

<RESISTOR BLOCK>

RB5001	1-233-576-11	RES, CHIP NETWORK 100
RB5201	1-236-400-11	NETWORK, RES 100
RB5202	1-236-424-11	NETWORK, RES 10K
RB5203	1-236-420-11	NETWORK, RES 4.7K
RB5204	1-236-412-11	NETWORK, RES 1.0K
RB5205	1-236-400-11	NETWORK, RES 100
RB5206	1-236-400-11	NETWORK, RES 100
RB5207	1-236-420-11	NETWORK, RES 4.7K
RB5208	1-233-576-11	RES, CHIP NETWORK 100
RB5209	1-236-400-11	NETWORK, RES 100
RB5210	1-233-576-11	RES, CHIP NETWORK 100
RB5211	1-233-576-11	RES, CHIP NETWORK 100
RB5212	1-233-576-11	RES, CHIP NETWORK 100
RB5213	1-236-400-11	NETWORK, RES 100
RB5214	1-233-576-11	RES, CHIP NETWORK 100
RB5215	1-236-400-11	NETWORK, RES 100
RB5216	1-236-400-11	NETWORK, RES 100
RB5217	1-236-424-11	NETWORK, RES 10K
RB5218	1-236-908-11	RES, CHIP NETWORK 10K
RB5219	1-233-576-11	RES, CHIP NETWORK 100
RB5220	1-236-424-11	NETWORK, RES 10K
RB5221	1-233-576-11	RES, CHIP NETWORK 100
RB5223	1-236-400-11	NETWORK, RES 100
RB5224	1-236-400-11	NETWORK, RES 100
RB5225	1-236-400-11	NETWORK, RES 100
RB5226	1-236-424-11	NETWORK, RES 10K
RB5227	1-236-424-11	NETWORK, RES 10K
RB5228	1-233-576-11	RES, CHIP NETWORK 100
RB5229	1-236-424-11	NETWORK, RES 10K
RB5301	1-236-400-11	NETWORK, RES 100
RB5302	1-233-576-11	RES, CHIP NETWORK 100
RB5303	1-233-576-11	RES, CHIP NETWORK 100
RB5403	1-233-576-11	RES, CHIP NETWORK 100
RB5404	1-233-576-11	RES, CHIP NETWORK 100
RB5405	1-233-576-11	RES, CHIP NETWORK 100
RB5406	1-236-400-11	NETWORK, RES 100
RB5407	1-236-400-11	NETWORK, RES 100
RB5408	1-236-400-11	NETWORK, RES 100

<VARIABLE RESISTOR>

RV5532	1-238-087-11	RES, ADJ CERMET 1K

<SWITCH>

S5201	1-572-922-11	SWITCH, SLIDE
S5202	1-572-922-11	SWITCH, SLIDE

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<THERMISTOR>	
TH5001	1-806-715-11	THERMISTOR	
TH5002	1-806-715-11	THERMISTOR	
		<CRYSTAL>	
X5001	1-767-199-11	VIBRATOR, CRYSTAL	
X5201	1-577-349-11	VIBRATOR, CRYSTAL	
X5202	1-577-349-11	VIBRATOR, CRYSTAL	
X5203	1-760-491-11	VIBRATOR, CRYSTAL	
**********			
	* A-1342-302-A	V BOARD, COMPLETE **********	
		<CONNECTOR>	
CN103	* 1-564-505-11	PLUG, CONNECTOR 2P	
		<SWITCH>	
S103	1-570-245-11	SWITCH, MICRO	
**********			
	* A-1373-566-A	U BOARD, COMPLETE **********	
		<CONNECTOR>	
CN102	1-564-505-11	PLUG, CONNECTOR 2P	
		<SWITCH>	
S102	1-570-245-11	SWITCH, MICRO	
**********			
	* A-1375-166-A	H BOARD, COMPLETE **********	
		<CAPACITOR>	
C6001	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C6002	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C6003	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C6004	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
		<CONNECTOR>	
CN6001	* 1-573-056-21	CONNECTOR, FPC (1.0MM)(ZIF)13P	
		<DIODE>	
D6001	8-719-045-60	DIODE SEC1401C	
D6002	8-719-045-53	DIODE SEC1801C	
D6003	8-719-045-53	DIODE SEC1801C	
D6004	8-719-045-53	DIODE SEC1801C	
D6005	8-719-045-53	DIODE SEC1801C	
D6006	8-719-045-53	DIODE SEC1801C	
D6007	8-719-045-53	DIODE SEC1801C	
D6008	8-719-045-53	DIODE SEC1801C	
D6009	8-719-045-55	DIODE SEC1201C	
D6010	8-719-045-53	DIODE SEC1801C	
D6011	8-719-045-53	DIODE SEC1801C	

REF. NO.	PART NO.	DESCRIPTION	REMARK
D6012	8-719-045-53	DIODE SEC1801C	
D6013	8-719-045-53	DIODE SEC1801C	
D6014	8-719-045-61	DIODE SEC1901C	
D6015	8-719-045-53	DIODE SEC1801C	
D6016	8-719-045-53	DIODE SEC1801C	
D6017	8-719-045-53	DIODE SEC1801C	
D6018	8-719-045-53	DIODE SEC1801C	
D6019	8-719-045-61	DIODE SEC1901C	
D6020	8-719-914-43	DIODE DAN202K	
D6021	8-719-914-43	DIODE DAN202K	
D6022	8-719-914-43	DIODE DAN202K	
D6023	8-719-914-44	DIODE DAP202K	
D6024	8-719-914-44	DIODE DAP202K	
D6025	8-719-914-44	DIODE DAP202K	
		<TRANSISTOR>	
Q6001	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q6002	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q6003	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q6004	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q6005	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q6006	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q6007	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q6008	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
		<RESISTOR>	
R6001	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R6002	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R6003	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R6004	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R6005	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R6006	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R6007	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R6008	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R6009	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R6010	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R6011	1-216-063-91	METAL GLAZE 3.9K 5% 1/10W	
R6012	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R6013	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R6014	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R6015	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R6016	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R6017	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R6018	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6019	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6020	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6021	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6022	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6023	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6024	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6025	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6026	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R6027	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R6028	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6029	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6030	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6031	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6032	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R6033	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6034	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6035	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6036	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6037	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6038	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6039	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R6040	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R6041	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R6042	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	

H NF NR

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R6043	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	
R6044	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W	
		<SWITCH>			
S6001	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6002	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6003	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6004	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6005	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6006	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6007	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6008	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6010	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6011	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6012	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6013	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6014	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6015	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
S6016	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE)			
		**********			
	* A-1390-614-A	NF BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C4007	1-126-205-11	ELECT	47MF	20%	6.3V
		<CONNECTOR>			
CN4001	* 1-564-506-11	PLUG, CONNECTOR 3P			
		<IC>			
IC4001	8-747-905-11	HYB IC SBX1790-51			
		<RESISTOR>			
R4001	1-216-025-91	METAL GLAZE 100	5%	1/10W	
R4002	1-216-017-91	METAL GLAZE 47	5%	1/10W	
		**********			
	* A-1390-615-A	NR BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C4101	1-126-205-11	ELECT	47MF	20%	6.3V
		<CONNECTOR>			
CN4101	* 1-564-518-11	PLUG, CONNECTOR 3P			
		<IC>			
IC4101	8-749-011-05	IC GP1U28X			
		<RESISTOR>			
R4101	1-216-017-91	METAL GLAZE 47	5%	1/10W	
R4102	1-216-025-91	METAL GLAZE 100	5%	1/10W	
		**********			

REF. NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
		**********	
	1-505-398-11	SPEAKER (7X4CM)	
	1-543-936-11	CORE (FPC)	
	1-698-818-11	FAN, DC	
	1-698-819-11	FAN, DC	
	* 1-758-105-11	OPTICAL UNIT	
	1-900-222-25	CONNECTOR ASSY, FLAT 13P	
	1-900-222-43	CONNECTOR ASSY, LAMP SOCKET	
		**********	
		ACCESSORIES AND PACKING MATERIALS	
		**********	
	⚠ 1-557-377-11	CORD, POWER (3 CORE) (S500U)	
	⚠ 1-590-910-11	CORD SET, POWER (S500M)	
	1-774-626-11	ADAPTOR, CONVERSION	
	⚠ 1-777-649-11	CORD, POWER (S50UE)	
	1-777-743-11	CABLE ASSY(15PDSUBX2CONNECTOR)	
	1-782-484-11	CABLE, CONVERSION (MAC)	
	1-782-485-11	CABLE, CONVERSION (IBM)	
	3-860-087-01	MANUAL, INSTRUCTION (FOR RM-PJ21)	
	3-860-087-11	MUNUAL, INSTRUCTION (FOR RM-PJ21)	
	3-860-598-11	MANUAL, INSTRUCTION (S500U/S500E/S500M)	
	3-860-598-21	MANUAL, INSTRUCTION (S500E/S500M)	
	3-860-598-31	MANUAL, INSTRUCTION (S500M)	
	4-058-832-11	COVER	
	* 4-058-980-01	INDIVIDUAL CARTON (S500U)	
	* 4-058-981-01	CUSHION (UPPER) (ASSY)	
	* 4-058-982-01	CUSHION (LOWER) (ASSY)	
	* 4-058-987-01	INDIVIDUAL CARTON (S500E)	
	* 4-058-988-01	INDIVIDUAL CARTON (S500M)	
		REMOTE COMMANDER	
		**********	
	1-473-826-11	REMOTE COMMANDER (RM-PJM500)	
	9-939-483-01	BATTERY COVER (FOR RM-PJM500)	
		**********	

REF. NO.	PART NO.	DESCRIPTION	REMARK

ACCESSORIES AND PACKING MATERIALS (PSS-500)
****

	3-858-084-03	MANUAL, INSTRUCTION
	4-047-742-01	NUT (M8), HEXAGON
	4-047-743-01	WASHER, TOOTHED LOCK
	4-047-744-01	PIN
	4-047-746-01	BOLT (M8X50), HEXAGON
	4-047-748-01	WASHER (M8), FLAT
	4-047-765-01	SCREW (M4X6), +P
	4-047-903-01	PIN, SNAP
	4-055-228-11	BOLT (M6X35), HEXAGON
	4-055-229-11	WASHER (M6), PLAIN
	4-055-230-11	WASHER (M6), LOCK SPRING

****

ACCESSORIES AND PACKING MATERIALS (PK-PJ500)
****

	3-858-065-01	MANUAL, INSTRUCTION
*	3-715-526-01	WASHER (M3)
	4-054-855-01	SCREW (+PWH M3X10), MACHINE
	4-396-203-01	SCREW (+B M3X12), PREVENTION
	7-682-561-04	SCREW +P 4X8
	7-684-024-04	N 4, TYPE 2
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3
	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3

****

ACCESSORIES AND PACKING MATERIALS (RM-PJ21)
****

	1-782-484-11	CABLE, CONVERSION (WITH MAC)
	1-782-485-11	CABLE, CONVERSION (WITH IBM)
	3-860-087-01	MANUAL, INSTRUCTION
*	4-059-548-01	INDIVIDUAL CARTON

VPL-S500U/S500E/S500M

PK-PJ500/PSS-500/RM-PJ21/RM-PJM500

SONY

SERVICE MANUAL

VPL-S500U
US Model
Canadian Model

VPL-S500E/S500M
AEP Model

CORRECTION-1

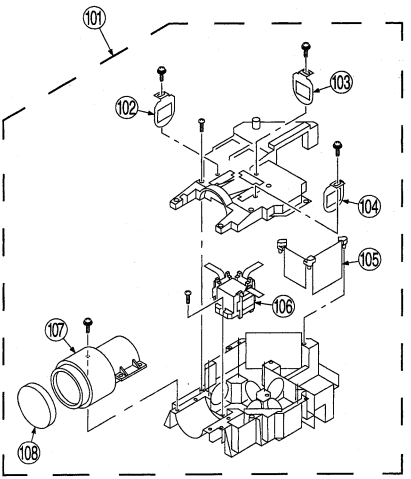
File this correction with the service manual.

INTRODUCTION

1. Parts Number correction in SEC.5 EXPLODED VIEWS (Page 127, OPTICAL UNIT).

☛: Indicates corrected portion

5-3. OPTICAL UNIT



Incorrect

REF. NO.	PART NO.	DESCRIPTION	REMARK
101	* 1-758-105-11	OPTICAL UNIT	102–108
102	9-939-622-01	HOLDER, DEFLECTION PLATE (B)	
103	9-939-621-01	HOLDER, DEFLECTION PLATE (G)	
104	9-939-620-01	HOLDER, DEFLECTION PLATE (R)	
105	9-939-923-01	LATCH SET, FLYEYE LENS	
106	9-939-617-02	PRISM BLOCK	
107	9-939-616-01	PROJECTION LENS	
108	9-939-715-01	LENS CAP	

Correct

REF. NO.	PART NO.	DESCRIPTION	REMARK
101	* 1-758-105-11	OPTICAL UNIT	102–108
102	9-980-815-01	HOLDER, POLARIZATION PLATE (B)	
103	9-980-814-01	HOLDER, POLARIZATION PLATE (G)	
104	9-980-813-01	HOLDER, POLARIZATION PLATE (R)	
105	9-980-812-01	LATCH SET, FLYEYE LENS	
106	9-980-811-01	PRISM BLOCK	
107	9-980-810-01	PROJECTION LENS	
108	9-980-816-01	LENS CAP	

Sony Corporation
Image & Sound Communication Company
9-922-669-91

© 1997.9